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AIR MINISTRY

METEOROLOGICAL OFFICE

RÉSEAU MONDIAL 1923

MONTHLY AND ANNUAL SUMMARIES OF
PRESSURE, TEMPERATURE, AND PRECIPITATION
BASED ON A WORLD-WIDE NETWORK OF
OBSERVING STATIONS

Published by the Authority of the Meteorological Committee

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RÉSEAU MONDIAL, 1923.

PREFACE.

The Réseau Mondial is published under the auspices of the International Meteorological Committee, which has appointed a Commission, the International Commission for the Réseau Mondial, to foster the enterprise. An account of its early history is given in the preface to the volume for 1914. The publication of the data commenced in 1917 with the annual volume for 1911, and during the four following years the volumes for 1912, 1913, 1910 and 1914 were issued, in that order. Since the appearance of the volume for 1914, meetings of the Commission have taken place in connexion with the meetings of the International Meteorological Committee held in London in 1921, in Zürich in 1926, and in Copenhagen in 1929. At the London meeting the Commission approved the general form in which the results had been published, and adopted a resolution, subsequently endorsed by the Committee, requesting that the publication of similar data for ensuing years might be continued. In compliance with that request, nine additional volumes have been issued.

The volume for 1921 for the first time gave effect to a wish, also voiced at the meeting held in London, for the inclusion of data from the oceans as well as from land stations. In that volume the information was confined to two five-degree " squares " in the North Atlantic Ocean ; in the present volume the number of such squares has grown to seven, of which five are in the North Atlantic and two in the North Pacific Ocean. The figures represent the data supplied by ships reporting to the Meteorological Services of Denmark, Germany, Holland, Norway and the United States, as well as to the British Meteorological Office, and for the Atlantic squares the different European Services have co-operated in accordance with a scheme suggested by the Commission for Maritime Meteorology. The data will be found intercalated among the observations from land stations, as numbers 307, 331, 333, 333a, 430, 508 and 831. They include—

(1) the mean latitude and longitude of the observations, calculated separately for each month.

(2) the number of observations (entered in the column for " height ").

(3) the mean pressure.

(4) the mean temperature of the sea surface. For convenience these figures have been entered in the column for the date of the absolute maximum temperature.

(5) the mean temperature of the air.

For the Atlantic squares the values are based partly on observations taken six times a day, and partly on observations at 8h. and 20h., local time ; the latter figures have been corrected for diurnal variation and the two sets have then been combined. For the two squares in the Pacific the observations are taken only once daily, at 12h. G.M.T., equivalent to 2 a.m. and 2.40 a.m. local time. In general, mean values from observations taken six times a day are deduced from not less than 30 observations per month, thus putting a square on a par with a land station observing once daily. In square 10°—5° N., 30°—25° W., the number of observations is greater than this minimum in each month ; in the other squares the numbers fall below 30 in some months but the data have been included in order to avoid breaking the continuity of the series. It will be observed that for some squares,

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two figures are given for each month as the number of observations. These different figures refer to the different elements; the number of observations of pressure available in any month frequently differs from the number of observations of sea temperature or of air temperature. The differences are in general not of sufficient importance to affect appreciably the mean latitude and longitude. Differences from normal are given where possible; the sources of these normals are stated in the "Table of Authorities."

At the meeting of the Commission held in Zürich in 1926, the following rules were adopted to regulate the practice regarding the normals to be used in the Réseau Mondial.

"(*a*) Departures from normal will not be employed unless the series of observations available covers a period of ten years or more.

(*b*) A normal will be prepared for any station as soon as ten years' observations are available. This normal will remain in use for the next five years. When data for 15 years are available, the normal will be revised. A further revision will take place when data for 25 years become available, and a final revision when data for 35 years become available. Normals covering a period of 35 years or more will only be revised when opportunity offers.

(*c*) While the procedure laid down in paragraph (*b*) will be the one usually followed, advantage will be taken of any re-determinations of normals which become available. Such an opportunity is presented by the publication of the collection of the "Long Series" data which is now being made by the Smithsonian Institution, and normals based on these data will be brought into use in the volume of the Réseau Mondial for 1921.

(*d*) When an official meteorological service publishes departures from normal in its current publications these may, if thought desirable, be used in the Réseau Mondial.

(*e*) The periods covered by the normals will be set out in the Table of Authorities as at present. Whenever new normals are introduced the attention of readers will be called to the change by adding an appropriate sign to the figures to which the new normal has first been applied.

(*f*) These instructions will be brought into use when the compilation of the volume for the year 1921 is commenced."

In editing the present volume these rules have been closely followed.

The membership of the Commission at the close of the Copenhagen meeting was as follows: Dr. G. C. Simpson, Great Britain (President); Dr. W. van Bemmelen, Holland; Dr. D. la Cour, Denmark; Vice-Admiral H. Dominik, Germany; Professor F. Eredia, Italy; Professor E. van Everdingen, Holland; Captain N. I. Evgenoff, Russia; M. Sampaio Ferraz, Brazil; Professor H. von Ficker, Germany; Professor E. Fontséré, Spain; Dr. S. Fujiwhara, Japan; M. Gain, France; Professor Dr. B. Helland Hansen, Norway; Professor Dr. H. Hergesell, Germany; Dr. Th. Hesselberg, Norway; Mr. H. A. Hunt, Australia; Dr. J. Keranen, Finland; Professor Dr. M. Knudsen, Denmark; Dr. O. Krogness, Norway; Mr. R. G. K. Lempfert, Great Britain; Dr. G. Ljungdahl, Sweden; Professor C. F. Marvin, United States of America; Professor G. Melander, Finland; Dr. C. W. B. Normand, India; Professor T. Okada, Japan; Mr. J. Patterson, Canada; Captain de F. Rouch, France; Dr. J. W. Sandström, Sweden; Sir Napier Shaw, Great Britain; Mr. C. Stewart, South Africa; Sir F. Stupart, Canada; Dr. H. U. Sverdrup, Norway; Sir Gilbert Walker, Great Britain; Dr. A. Wallén, Sweden; Captain P. Wehrlé, France; Professor Vladimir Wiese, Russia; Dr. A. Wigand, Germany.

A list of the additions or changes made in the network of stations since the issue of the preceding volume is given below. These changes have been made in consultation with the Directors of the National Meteorological Services concerned.

Additions :—

Zone 1, 80°—70° N.	..	133, Germaniahavn.
Zone 3, 60°—50° N.	..	304, Port Moller.
		331, 55°—50° N. 30°—25° W. (Ocean "Square.")
Zone 9, 0°—10° S.	..	934, Ascension Island.
Zone 10, 10°—20° S.	..	1041, Livingstone.

The following substitutions have been made :—

Substitutions :—

Zone 3, 60°—50° N.	..	341, Warsaw (Society of Sciences) for Warsaw (Pump Station).
Zone 4, 50°—40° N.	..	443, Odessa (Magn. and Meteor. Obs.) for Odessa (University).
Zone 5, 40°—30° N.	..	535a, Melilla (Granja) for Melilla (Puerto).
Zone 7, 20°—10° N.	..	735, Niénébale for Ségou.
		757, Cap St. Jacques for Saigon.

A change in site has been made at the following station :—

Zone 10, 10°—20° S.	..	1030, Aracaju.

The following station has been closed and has consequently been deleted :—

Zone 9, 0°—10° S.	..	968, Rendova.

Data for the following stations are missing :—

Zone 1, 80°—70° N.	..	123, Inglefield Bay.
Zone 2, 70°—60° N.	..	244, Petrozavodsk.
		263, Verkhoïansk.
Zone 3, 60°—50° N.	..	359, Tchita.
		360, Nertchinskii Zavod.
		365, Nikolaevsk-sur-Amour.
Zone 4, 50°—40° N.	..	451, Narynskoe.
Zone 10, 10°—20° S.	..	1027, Bello Horizonte.

The total number of stations utilised was 463 as against 452 in 1922.

INTRODUCTION TO THE TABLES OF THE RÉSEAU MONDIAL FOR THE YEAR 1923.

Subdivision of the Globe and numbering of Stations.—In order to facilitate the grouping of the information, the surface of the globe is divided into zones each covering ten degrees of latitude. These zones are numbered consecutively from north to south, the number 1 being assigned to the zone extending from latitude 80° N. to latitude 70° N., the northernmost one for which information is available. The southernmost zone in the southern hemisphere for which observations are available, that extending from latitude 60° S. to latitude 70° S., accordingly becomes zone No. 15.

An identification number is assigned to each station. The first one or two digits in this number specify the zone to which the station belongs, and the last two digits indicate its position in longitude. For the latter purpose the zones are subdivided into 36 " squares," each extending over ten degrees of longitude, and two station numbers are assigned to each square. The enumeration of the stations starts from longitude 180° west of the meridian of Greenwich and proceeds eastward. A few examples will make the system clear. Station numbers 101 and 102 refer to the stations in zone 1 (i.e. between latitude 80° N. and 70° N.) between longitude 180° W. and 170° W.; station numbers 335 and 336 to the stations in zone 3 (60° N. to 50° N.) between longitude 10° W. and 0°; station numbers 1147 and 1148 to the stations in zone 11 (latitude 20° S. to 30° S.) between longitude 50° E. and 60° E., i.e., to the Indian Ocean. In cases where it has been found desirable to give data for more than two stations in one " square " the additional stations are distinguished by adding the letter " *a* " to the numbers appropriate to the square. For zone 6 between longitude 100° W. and 90° W. it was considered desirable to give data for the two Indian stations Cherrapunji and Gauhati, representing conditions at high and low levels, the mountain station Cherrapunji being indicated by the addition of the letter " *m* " to the number appropriate to Gauhati.

In the monthly tables the data are arranged by zones, and within each zone, in the order of the identification numbers of the stations.

Units.—Absolute units related to the metric system are employed throughout. The scale on which temperatures are recorded in the Réseau Mondial is such that the freezing point of water under atmospheric pressure is 273*a* precisely. Other temperatures differ by 273·0 from readings on the Centigrade scale. Conversion tables, showing the relation of these units to the units more commonly in use, will be found on pp. xvi to xviii of the Réseau Mondial for 1914.

Authorities.—The data have been transcribed in most cases from the publications of the various meteorological institutes received in the Library of the Meteorological Office. Particulars of the sources from which they have been taken will be found in the *Table showing the Authorities for the Meteorology of the Globe,* printed at the end of the volume. In many cases the volumes for 1923 have not yet been issued and the data have therefore been taken from advance manuscript copies supplied by the courtesy of the Directors concerned, whose valued co-operation is hereby acknowledged. The data for some stations in the British Colonies have been transcribed from manuscript returns received in the Meteorological Office, and have not yet been published elsewhere. The majority of the stations for which information is given are under the control of government meteorological services; it is therefore assumed that the recognised conventions regarding the instruments and their exposure have been followed. In the case of other stations information on these points is sometimes lacking, but no observations have been included that are known to be faulty in this respect. The positions of stations, their heights above sea-level and the spelling of names, have been taken from the official meteorological

publications, if given, but in some cases it has been necessary to complete this information from other sources. For certain stations re-determined heights adopted in *World Weather Records* have been substituted for heights previously published.

In the tables for 1918 the symbol $\mathfrak{T}$ was introduced to signify the true, or 24-hour, mean temperature. The letters a, b, c, etc., have replaced the symbols used in the volume for 1917 as references to the notes at the end of the Table of Authorities.

Height above Sea Level.—Particulars of the datum used in the European countries when specifying heights above sea level will be found in the Introduction to the volume of Tables for 1914.

Normals.—Wherever possible the departures from normal of the monthly values of mean pressure, mean temperature and precipitation, are given. In all cases an endeavour is made to secure that the normals are based on the same combination of values as the current data, or a comparable one. The years to which the normals refer are given in the *Table showing the Authorities for the Meteorology of the Globe* at the end of the volume.

Pressure.—The tables provide space for the entries of mean monthly pressure both at station level and at mean sea level. If the values at sea level are not given in the publication from which the data have been transcribed, they have been computed in the Meteorological Office for stations not exceeding 2,000 metres in altitude, for which the height above sea level was accurately known. The reduction is based on an expansion of the formula $p_o = pe^{\frac{z}{KT}}$ and assumes that the temperature decreases upwards at the rate of 0·5° C. per 100 metres and that the average relative humidity of the air column between the station and sea-level is 50 per cent. The monthly means of pressure are based by preference on hourly values, but when such are not available, combinations of observations at fixed hours have been used. Particulars of the combination adopted at each station are given in the *Table showing the Authorities for the Meteorology of the Globe* under the heading " Remarks." Table I (p. vii) gives for certain stations the correction required to reduce the means computed in this way to the means computed from hourly observations. In cases in which it is possible to give values both for station level and for sea level, the differences from normal refer to the latter, except at the stations to which the suffix " q " is given in the list of Authorities, for which the differences from normal refer to station level.

Temperature.—The monthly tables include the means of the daily readings of maximum and minimum thermometers, the highest reading of the maximum and the lowest reading of the minimum thermometer, the mean temperature obtained from the mean maximum and mean minimum, and a column giving the observed or deduced mean of 24 hourly values per day.

The column headed " 24 hr. mean " contains: in Roman type, means based on at least six equally-spaced observations each day: in *italic* type, either (a) means based on observations at one or more fixed hours, with or without an appropriate correction; or (b) means obtained by applying an appropriate correction to the mean of the mean daily maximum and mean daily minimum. The methods by which these figures in italics have been deduced are in all cases set out in the Table of Authorities in the column headed " Remarks " pp. 105—114.

Precipitation.—The term precipitation includes rain, snow, hail and (if of measurable amount) dew. The solid precipitates are measured by the depth of water they yield or are computed to yield when melted.

Wind.—No information regarding wind is included in the general tables, but at the end of each monthly section daily observations of wind are given for selected

stations in the tropics. At the foot of these tables the Resultant Direction and the "Constancy" are given. No account is taken of wind *strength* in computing these quantities; each observation of direction is regarded as a unit vector and the *resultant direction* is obtained by compounding the unit vectors. The "*constancy*" is represented by 100 times the ratio of the vector sum of the unit vectors to the number of observations (calms included). Direction is specified by the azimuth of the point *from* which the wind is blowing, and is measured in degrees from north through east.

State of Ice in the Arctic Seas.—The statistical information given for each month is supplemented by notes on the state of the ice in the Arctic Seas and in the North Atlantic Ocean.

Bibliography of the Meteorology of the Globe.—A bibliography will be found on page xv of the Réseau Mondial 1914.

TABLE I.—*Corrections to reduce Means of Pressure at various hours or combinations of hours to True Mean.*

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Zone 1.													
Barrow, ½ (7+19) (5)	+0·2	+0·2	+0·1	+0·1	+0·2	+0·1	+0·1	+0·1	+0·1	..	..	+0·1	..
Barrow, 19h. (5)	..	..	..	..	..	..	..	..	..	−0·1	−0·1	..	..
Gaasefiord and Godthaab for Upernivik, ⅓ (8+14+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0	0·0	0·0	0·0
Spitsbergen, ½ (8+14+19) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	−0·1	0·0	0·0
Gjesvaer, ⅓ (8+13+19) (19)	+0·1	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	0·0	0·0	0·0	+0·1	0·0
Gjesvaer and Vardo for Mehavn, ⅓ (8+14+19) (19)	0·0	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	0·0	0·0	0·0	+0·1	0·0
Vardo, ⅓ (8+14+19) (19)	0·0	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	0·0	0·0	0·0	+0·1	0·0
Malye Karmakouly, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Waigatz, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Zone 2.													
Sitka for Nome, ½ (6+18) (8)	+0·1	+0·1	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Sitka for Tanana, ½ (7+17) (8)	+0·1	+0·1	+0·2	+0·1	+0·1	0·0	0·0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Sitka for Tanana *and* Valdez, ½ (7+19) (8)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Sitka for Eagle, ⅓ (8+16) (8)	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	+0·1	0·0
Sitka for Eagle, ⅓ (8+20) (8)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	+0·1	+0·1
Godthaab, *and for* Jacobshavn, *and* Ivigtut, ⅓ (8+14+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1
Godthaab for Ivigtut, ⅓ (8+15+21) (1)	−0·1	0·0	−0·1	−0·1	..	..	..	..	..	..	..	..	..
Angmagsalik, ⅓ (8+14+21) (1)	+0·1	0·0	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	−0·1
Bergen, ⅓ (8+14+19) (19)	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	+0·1
Aalesund, ⅓ (8+14+19) (19)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	0·0	0·0	+0·1	+0·1	+0·1	+0·1
Trondhjem, ⅓ (8+14+19) (19)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Bodö, ⅓ (8+14+19) (19)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Helsingfors for Kuopio, ⅓ (7+14+21) (8)	+0·1	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Kola, ½ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Arkhangelsk, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Mezen, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Oust-Tsylma, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Tcherdyn, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Berezov, ⅓ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Obdorsk, ⅓ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Sourgout, ⅓ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Doudinka, ⅓ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Touroukhansk, ⅓ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Iakoutsk, ⅓ (7+13+21) (1)	+0·1	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Zone 3.													
Sitka for St. Paul Is. *and* Dutch Harbour, ½ (6+18) (8)	+0·1	+0·1	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Sitka for Kodiak, ⅓ (7+19) (8)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Sitka, ½ (8+20) (8)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	+0·1	+0·1
Sitka and Victoria for Prince Rupert, ⅓ (5+17) (1)	+0·2	+0·2	+0·2	+0·2	+0·2	+0·1	+0·1	+0·2	+0·2	+0·2	+0·2	+0·1	+0·2
Victoria for Kamloops, ½ (4½+16½) (1)	+0·1	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·1	+0·2
Victoria and Moose Jaw for Calgary, ½ (5½+17½) (1)	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·3	+0·3	+0·2	+0·1	+0·2
Fort Confidence and Moose Jaw for Fort Chipewyan, ½ (8+18) (1)	0·0	+0·1	+0·1	+0·1	0·0	−0·1	−0·1	0·0	+0·1	+0·1	+0·1	+0·1	0·0
Moose Jaw for Prince Albert *and* Qu'Appelle, ½ (6+18) (1)	+0·3	+0·2	+0·2	+0·2	+0·2	+0·1	+0·1	+0·1	+0·2	+0·3	+0·3	+0·3	+0·2
Moose Jaw and Winnipeg for Minnedosa, ½ (7+19) (1)	+0·2	+0·1	+0·1	+0·1	+0·1	−0·1	−0·1	0·0	0·0	0·0	0·0	+0·1	0·0
Fort Churchill for Port Nelson, ½ (7½+18½) (1)	−0·1	0·0	0·0	+0·1	+0·2	+0·3	+0·2	+0·1	+0·1	−0·1	−0·2	−0·2	0·0
Le Pas and Fredericton for Fort Hope, ½ (9+21) (1)	−0·1	−0·2	−0·2	−0·3	−0·2	−0·2	−0·2	−0·2	−0·3	−0·3	−0·2	−0·2	−0·2
Le Pas and Fredericton for Moose Factory, ⅓ (9+14+19) (1)	+0·1	0·0	0·0	0·0	+0·1	+0·1	0·0	0·0	−0·1	−0·1	0·0	0·0	0·0
Hamburg, ⅓ (8+14+20) (1)	+0·1	+0·1	0·0	−0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Hamburg and Uppsala for Copenhagen, ½ (8+14+21) (2)	+0·1	−0·1	+0·1	+0·1	+0·1	+0·1	0·0	+0·1	+0·1	+0·1	0·0	−0·1	+0·1

TABLE I.—*Corrections to reduce Means of Pressure at various hours or combinations of hours to True Mean*—continued.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Zone 3—continued.													
Warsaw, ⅛ (7+13+21) (11)	+0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	0·0
Petrograd, ⅛ (7+13+21) (2)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0
Kiiv, ⅛ (7+13+21) (1)	+0·1	+0·3	0·0	−0·1	−0·4	−0·4	−0·3	−0·3	−0·1	−0·2	+0·1	+0·1	−0·1
Moscow, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0
Saratov, ⅛ (7+13+21) (1)	+0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0	0·0
Kazan, ⅛ (7+13+21) (1)	+0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	+0·1	0·0
Orenburg, ⅛ (7+13+21) (1)	+0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0	−0·1
Perm, ⅛ (7+13+21) (1)	+0·1	0·0	0·0	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	+0·1	0·0
Sverdlovsk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	−0·1	0·0	−0·1	−0·1	0·0	0·0	0·0	+0·1	0·0
Tobolsk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	+0·1	0·0
Omsk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	−0·1	0·0	−0·1	0·0	−0·1	0·0	0·0	0·0	0·0
Barnaoul, ⅛ (7+13+21) (2)	0·0	0·0	0·0	−0·1	−0·1	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0
Tomsk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Minousinsk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	−0·1	−0·1	0·0	−0·1	0·0	−0·1	0·0	0·0	0·0	0·0
Eniseisk, ⅛ (7+13+21) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Irkutsk, ⅛ (7+13+21) (2)	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·2	−0·2	−0·2	−0·1	0·0	+0·1	−0·1
Kirensk, ⅛ (7+13+21) (1)	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	−0·1
Tygan Ourkan, ⅛ (7+13+21) (1) ..	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	−0·1
Blagovyeshchensk, ⅛ (7+13+21) (1) ..	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	0·0
Zone 4.													
Winnipeg, *and for* Port Arthur, ⅛ (7+14+19) (1)	0·0	+0·1	+0·1	+0·1	+0·1	0·0	0·0	+0·1	+0·1	0·0	0·0	0·0	0·0
New York, ⅛ (7+14+21) (1)	+0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	+0·1	0·0
St. John, N.B., ⅛ (9+15+21) (1) ..	−0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·2	−0·1
Madrid, ⅛ (7+13+18) (1)	+0·1	+0·2	+0·4	+0·6	+0·5	+0·4	+0·4	+0·4	+0·3	+0·2	+0·1	0·0	+0·3
Nice for Marseille, ⅛ (7+10+12+16+18+22) (15)	0·0	−0·1	−0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1
Rome, ⅛ (9+15+21) (3)	−0·3	−0·3	−0·1	−0·1	−0·1	−0·2	−0·2	−0·2	−0·1	−0·3	−0·3	−0·2	−0·2
Bucharest for Sofia, ⅛ (7+14+21) (1) ..	+0·1	+0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	+0·1	0·0
Odessa, ⅛ (7+13+21) (1)	+0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	+0·1	0·0
Kharkiv, ⅛ (7+13+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0	+0·1	0·0
Novorossiisk, ⅛ (7+13+21) (1) ..	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·2	−0·1	−0·1	0·0	0·0	0·0	−0·1
Astrakhan ⅛ (7+13+21) (1) ..	+0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·2	−0·1	−0·1	0·0	0·0	−0·1
Fort Alexandrovsk, ⅛ (7+13+21) (1)	+0·1	0·0	−0·1	−0·1	−0·1	−0·1	−0·2	−0·2	−0·1	−0·1	0·0	0·0	−0·1
Krasnovodsk, ⅛ (7+13+21) (1) ..	+0·1	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·2	−0·2	0·0	0·0	0·0	−0·1
Kasalinsk, ⅛ (7+13+21) (1)	0·0	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·2	−0·2	0·0	0·0	0·0	−0·1
Tachkent, ⅛ (7+13+21) (1)	0·0	−0·1	−0·1	−0·2	−0·3	−0·2	−0·2	−0·3	−0·2	−0·1	0·0	0·0	−0·1
Alma Ata, ⅛ (7+13+21) (1)	0·0	−0·1	−0·1	−0·2	−0·3	−0·2	−0·2	−0·2	−0·2	−0·1	0·0	0·0	−0·1
Vladivostok, ⅛ (7+13+21) (1) ..	+0·1	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·2	−0·1	0·0	0·0	0·0	−0·1
Zone 5.													
Madeira (Funchal), ⅛ (9+15+21) (1) ..	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·2	−0·2	−0·2	−0·1	−0·1	−0·1	−0·1
Lisbon, ⅛ (9+15+21) (4)	−0·2	−0·1	−0·1	−0·2	−0·2	−0·1	−0·2	−0·1	−0·2	−0·2	−0·2	−0·1	−0·2
Bouzaréah for Melilla, ⅛ (8+16) (1) ..	+0·2	+0·2	+0·2	+0·1	..	..	..	..	..	..	..	..	..
Bouzaréah for Melilla, ⅛ (7+13+18) (1)	..	..	..	..	+0·1	+0·1	0·0	+0·1	+0·1	+0·1	+0·1	+0·2	..
Lisbon for Gibraltar, ⅛ (7+13+21) (4)	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·3	−0·3	−0·2	−0·1	−0·1	0·0	−0·1
Algiers (Bouzaréah) ⅛ (7+13+18) (1)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	+0·1	+0·1	+0·1	+0·2	+0·1	
Palma, ⅛ (8+13+18) (1)	0·0	0·0	0·0	+0·1	+0·1	0·0	−0·2	−0·1	−0·1	−0·2	−0·2	−0·1	−0·1
Metlaoui for Tunis, ⅛ (7+13+19) (1) ..	0·0	+0·1	+0·2	+0·2	+0·1	+0·1	+0·1	0·0	0·0	−0·1	0·0	+0·1	
Metlaoui for Malta, ⅛ (7+18) (1) ..	+0·3	+0·3	+0·4	+0·5	+0·5	+0·5	+0·5	+0·5	+0·4	+0·3	+0·3	+0·4	
Naples for Riposto, ⅛ (9+15+21) (2) ..	0·0	0·0	−0·1	−0·1	−0·1	−0·2	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	
Alexandria, ⅛ (8+14+20) (17) ..	0·0	0·0	0·0	0·0	0·0	0·0	0·0	−0·1	0·0	−0·1	0·0	0·0	0·0
Athens and Cairo for Nicosia, ⅛ (8+15) (1)	+0·2	+0·2	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·2	+0·2	+0·2	+0·2	+0·2
Hinaidi, 8 h. (16)	−0·4	−0·6	−0·7	−0·7	−0·8	−0·9	−1·1	−1·2	−1·1	−1·0	−0·8	−0·5	−0·8
Lenkoran, ⅛ (7+13+21) (1)	+0·1	0·0	−0·1	−0·1	−0·2	−0·2	−0·2	−0·2	−0·2	0·0	0·0	+0·1	−0·1
Quetta, 8 h. (6)	−0·9	−0·9	−1·1	−1·2	−1·2	−1·4	−1·3	−1·2	−1·4	−1·5	−1·4	−1·1	−1·2
Peshawar, 8 h. (6)	−0·9	−1·1	−1·2	−1·4	−1·8	−2·1	−2·0	−1·9	−1·8	−1·8	−1·5	−1·0	−1·6
Lahore, 8 h. (6)	−0·7	−0·6	−1·0	−1·2	−1·3	−1·6	−1·3	−1·5	−1·4	−1·4	−1·0	−0·9	−1·1
Simla, 8 h. (6)	−0·2	−0·2	−0·2	−0·4	−0·6	−0·5	−0·5	−0·4	−0·5	−0·5	−0·6	−0·4	−0·4
Leh, 8 h. (6)	−1·0	−0·9	−1·4	−1·3	−1·3	−1·6	−1·8	−1·7	−1·9	−1·7	−1·5	−1·2	−1·5
Zi-Ka-Wei for Hankow, ⅛ (6+14+22) (7)	+0·3	+0·2	+0·2	+0·1	0·0	0·0	−0·1	0·0	0·0	+0·2	+0·2	+0·3	+0·1
Pekin for Tientsin, ⅛ (6+14+22) (8) ..	+0·3	+0·3	+0·1	0·0	−0·1	−0·1	−0·1	0·0	0·0	+0·1	+0·2	+0·3	+0·1

TABLE I.—*Corrections to reduce Means of Pressure at various hours or combinations of hours to True Mean*—continued.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Zone 6.													
Mexico for La Paz, Chihuahua, Leon, Monterry *and* Tulancingo, ⅛ (7+14+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0
Nassau, Bahamas, ⅛ (8+15) (1) ..	+0·1	+0·1	0·0	+0·1	0·0	+0·1	+0·2	+0·2	+0·1	+0·2	+0·1	+0·1	+0·1
Izaña, ⅛ (7+13+18) (18)	+0·1	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	+0·1	+0·1
Cairo, ⅛ (8+14+20) (20)	+0·1	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0	0·0	0·0	0·0	0·0
Khartoum and Cairo for Aswan, ⅛ (8+14+20) (17)	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Khartoum and Cairo for Tor, ⅛ (8+14+20) (17)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0	0·0	0·0	0·0	0·0
Bushire, 8 h. (6)	−0·8	−0·8	−0·9	−0·7	−0·8	−0·6	−0·5	−0·5	−0·7	−0·9	−1·0	−0·0	−0·7
Jask, 8 h. (6)	−1·2	−1·1	−1·1	−1·0	−1·0	−0·8	−0·6	−0·8	−1·0	−1·1	−1·3	−1·2	−1·0
Karachi, 8 h. (6)	−1·5	−1·5	−1·4	−1·3	−1·3	−0·9	−0·8	−1·0	−1·2	−1·4	−1·5	−1·5	−1·3
Jacobabad, 8 h. (6)	−1·1	−1·3	−1·7	−1·7	−1·8	−1·7	−1·5	−1·4	−1·5	−1·4	−1·4	−1·2	−1·5
Jaipur, 8 h. (6)	−1·1	−1·2	−1·5	−1·6	−1·8	−1·6	−1·2	−1·2	−1·4	−1·6	−1·3	−1·3	−1·4
Nagpur, 8 h. (6)	−1·7	−1·9	−2·1	−2·3	−2·2	−1·4	−1·2	−1·2	−1·5	−1·7	−1·8	−1·7	−1·7
Allahabad, 8 h. (6)	−1·5	−1·6	−1·9	−2·0	−1·9	−1·7	−1·2	−1·2	−1·6	−1·7	−1·7	−1·6	−1·6
Darjeeling, 8 h. (6)	−0·3	−0·3	−0·6	−0·8	−0·9	−0·8	−0·6	−0·6	−0·8	−0·8	−0·7	−0·5	−0·6
Calcutta, 8 h. (6)	−1·6	−1·6	−1·7	−1·8	−1·5	−1·1	−0·9	−1·0	−1·2	−1·6	−1·7	−1·7	−1·5
Dinajpur and Sibsagar for Gauhati, 8 h. (6)	−1·7	−1·6	−1·9	−2·0	−1·8	−1·4	−1·4	−1·5	−1·6	−1·8	−1·9	−1·8	−1·7
Akyab, 8 h. (6)	−1·5	−1·5	−1·6	−1·7	−1·1	−0·8	−0·8	−0·9	−1·2	−1·4	−1·3	−1·5	−1·3
Mandalay, 8 h. (6)	−1·7	−1·8	−2·1	−2·1	−1·7	−1·4	−1·3	−1·3	−1·6	−1·8	−1·8	−1·8	−1·7
Phu Lien for Moncay, ½ (10+16) (9) ..	−0·3	−0·2	−0·2	−0·1	+0·1	+0·2	+0·2	+0·2	+0·1	−0·1	−0·1	−0·1	0·0
Hongkong for Amoy, ½ (9+18) (12) ..	−0·4	−0·3	−0·2	−0·2	−0·1	0·0	+0·1	+0·1	−0·1	−0·3	−0·4	−0·4	−0·2
Taihoku and Manila for Basco, ½ (6+14) (12)	+0·7	+0·6	+0·5	+0·5	+0·4	+0·4	+0·4	+0·5	+0·6	+0·6	+0·6	+0·7	+0·5
Zone 7.													
Mexico for Colima, Morelia *and* Salina Cruz, ½ (7+14+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0
Port au Prince, ⅛ (7+13+21) (12) ..	−0·1	−0·2	−0·3	−0·3	−0·3	−0·2	−0·2	−0·2	−0·2	−0·2	−0·1	−0·1	−0·2
St. Kitts for Montserrat, ½ (9+15) (12)	−0·3	−0·3	−0·2	−0·1	0·0	+0·1	+0·1	+0·1	0·0	−0·1	−0·1	−0·2	−0·1
Barbados, ½ (9+15) (12)	−0·3	−0·1	−0·1	0·0	+0·1	+0·1	0·0	−0·2	−0·3	−0·1	−0·1	−0·2	0·0
Duala for Kaduna, 9 h. (1)	−1·7	−1·7	−1·8	−1·8	−1·7	−1·6	−1·6	−1·6	−1·8	−1·9	−1·7	−1·7	−1·7
Khartoum *and for* El Obeid, ⅛ (8+14+20) (17)	−0·1	0·0	0·0	−0·1	−0·1	−0·1	−0·1	0·0	0·0	0·0	−0·1	−0·1	−0·1
Khartoum and Cairo for Port Sudan, ⅛ (8+14+20) (17)	0·0	0·0	0·0	−0·1	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Aden, 8 h. (6)	−1·6	−1·7	−1·7	−1·5	−1·6	−2·0	−2·1	−2·2	−1·9	−1·4	−1·7	−1·3	−1·8
Bombay, 8 h. (6)	−2·0	−1·9	−2·0	−2·0	−1·8	−1·1	−1·0	−1·2	−1·6	−2·0	−2·2	−2·1	−1·8
Bangalore, 8 h. (6)	−1·7	−1·7	−1·9	−2·1	−1·8	−1·2	−1·0	−1·3	−1·5	−1·7	−1·6	−1·7	−1·6
Madras, 8 h. (6)	−1·5	−1·5	−1·7	−1·7	−1·6	−1·6	−1·5	−1·6	−1·8	−1·7	−1·5	−1·5	−1·6
Vizagapatam, 8 h. (6)	−1·7	−1·6	−1·8	−1·8	−1·7	−1·2	−1·1	−1·2	−1·3	−1·6	−1·6	−1·7	−1·5
Port Blair, 8 h. (6)	−1·3	−1·2	−1·2	−1·3	−1·1	−0·9	−0·8	−0·9	−1·1	−1·2	−1·2	−1·3	−1·1
Rangoon, 8 h. (6)	−1·7	−1·9	−2·1	−2·2	−1·6	−1·0	−1·0	−1·0	−1·3	−1·8	−1·5	−1·8	−1·6
Bolinao, ½ (6+14) (1)	+0·5	+0·5	+0·5	+0·5	+0·5	+0·5	+0·4	+0·5	+0·6	+0·6	+0·6	+0·6	+0·5
Ormoc, ½ (6+14) (1)	+0·7	+0·6	+0·6	+0·7	+0·6	+0·6	+0·6	+0·7	+0·7	+0·7	+0·7	+0·7	+0·7
Zone 8.													
Duala and Sansane Mangu for Freetown, Sierra Leone, ½ (9+17) (1) ..	0·0	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	+0·1	0·0	0·0
Duala for Lagos, ½ (9+15) (1) ..	+0·1	0·0	0·0	0·0	0·0	0·0	−0·1	−0·1	−0·1	+0·1	+0·2	+0·1	0·0
Entebbe, ⅛ (7+14+21) (1)	+0·1	0·0	−0·2	−0·2	−0·2	0·0	+0·1	+0·2	+0·1	−0·2	−0·3	−0·1	−0·1
Cochin, 8 h. (6)	−1·9	−1·8	−1·8	−1·6	−1·2	−0·7	−0·7	−0·9	−1·2	−1·4	−1·6	−1·8	−1·4
Colombo, ½ (9½+15½) (6)	+0·1	+0·1	+0·1	+0·1	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·2	+0·1	+0·2
Trincomalee, ½ (9½+15½) (6)	−0·1	−0·1	0·0	+0·2	+0·3	+0·3	+0·4	+0·3	+0·3	+0·2	+0·1	0·0	+0·2
Singapore, *and for* Penang, ⅛ (9+15+21) (2)	−0·2	−0·2	−0·2	−0·3	−0·2	−0·2	−0·2	−0·2	−0·2	−0·3	−0·2	−0·3	−0·2
Manila for Iwahig, ½ (6+14) (12) ..	+0·7	+0·6	+0·6	+0·6	+0·6	+0·5	+0·5	+0·6	+0·7	+0·7	+0·7	+0·7	+0·6
Zone 9.													
Malden Island, ½ (9+20) (1)	−1·2	−1·0	−1·2	−1·2	−1·2	−0·8	−0·9	−1·0	−1·0	−1·1	−1·1	−1·0	−1·1
Quixeramobim, *and for* Turyassu *and* Barra do Corda, ⅛ (7+14+21) (1) ..	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	+0·1	+0·1
Ascension Island, ½ (9+22) (1)	..	..	−1·1	..	..	..	..	..	..	..	..	..	..
Ascension Island, ½ (9+21) (1)	..	..	..	−0·9	−0·9	−0·8	−0·8	−0·8	−0·9	−1·0	−0·9	−0·8	..
Zanzibar, 8 h. (6)	−2·1	−2·1	−1·6	−1·3	−1·1	−1·1	−1·1	−1·3	−1·6	−1·5	−1·6	−1·5	−1·6
Ocean Island, ½ (8+20) (1)	−0·9	−0·9	−1·0	−0·9	−0·8	−0·7	−0·6	−0·7	−0·7	−0·8	−0·7	−0·8	−0·8

TABLE I.—*Corrections to reduce Means of Pressure at various hours or combinations of hours to True Mean*—continued.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Zone 10.													
Arequipa, ½ (8+20) (13)	−0·3	−0·3	−0·3	−0·3	−0·3	−0·2	−0·2	−0·3	−0·4	−0·4	−0·4	−0·4	−0·3
St. Helena, 9 h. (1)	−1·2	−1·2	−1·3	−1·3	−1·3	−1·1	−1·1	−1·1	−1·0	−1·1	−1·2	−1·2	−1·2
Kimberley and Zomba for Gwelo, 8 h. (1)	−1·6	−1·6	−1·5	−1·4	−1·3	−1·3	−1·3	−1·4	−1·5	−1·6	−1·7	−1·7	−1·5
Zomba, ½ (9+21) (1)	−0·8	−0·8	−0·8	−0·9	−0·9	−0·9	−0·9	−1·0	−1·0	−0·9	−0·9	−0·9	−0·9
Derby, ½ (9+15) (1)	0·0	0·0	0·0	0·0	0·0	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	0·0
Hall's Creek, ½ (9+15) (1)	+0·2	+0·2	+0·2	+0·2	+0·2	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·2	+0·3
Darwin, ½ (9+15) (1)	0·0	0·0	0·0	+0·1	+0·2	+0·1	+0·1	+0·1	0·0	0·0	−0·1	−0·1	0·0
Daly Waters, ½ (9+15) (1)	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3	+0·3
Mein, ½ (9+15) (1)	0·0	0·0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0·0	0·0	0·0	0·0	+0·1
Georgetown, Queensland, ½ (9+15) (1)	+0·1	+0·1	+0·2	+0·2	+0·2	+0·3	+0·3	+0·3	+0·3	+0·3	+0·2	+0·2	+0·2
Apia for Suva, Fiji, 9 h. (10)	−1·2	−1·3	−1·5	−1·4	−1·5	−1·5	−1·4	−1·4	−1·5	..	..	..	..
Apia for Suva, Fiji, 8½h. (10)	..	..	..	..	..	..	..	..	..	−1·5	−1·4	−1·3	..
Zone 11.													
Santiago for Punta Tortuga, ½ (7+14+21) (1)	−0·3	−0·2	−0·2	0·0	0·0	+0·1	+0·1	0·0	−0·1	−0·1	−0·2	−0·3	−0·1
Mollendo for Iquique, ½ (7+14+21) (13)	−0·1	−0·1	0·0	0·0	0·0	+0·1	+0·1	0·0	0·0	−0·1	−0·2	−0·1	0·0
Curityba, ⅓ (7+14+21) (12)	−0·2	−0·1	−0·1	0·0	+0·1	+0·1	+0·1	+0·1	0·0	−0·1	−0·1	−0·2	0·0
Kimberley, ⅓ (8+14+20) (14)	0·0	0·0	0·0	0·0	0·0	0·0	+0·1	0·0	0·0	0·0	0·0	0·0	0·0
Bulawayo, 8 h. (1)	−1·3	−1·2	−1·1	−1·0	−1·0	−0·9	−0·9	−1·0	−1·3	−1·4	−1·4	−1·3	−1·1
Onslow, ½ (9+15) (1)	−0·2	−0·2	−0·1	−0·1	−0·1	0·0	+0·1	0·0	0·0	0·0	0·0	0·0	0·0
Nullagine, ½ (9+15) (1)	0·0	0·0	+0·1	+0·1	+0·1	+0·2	+0·2	+0·2	+0·1	+0·1	+0·1	0·0	+0·1
Laverton, ½ (9+15) (1)	+0·2	+0·2	+0·2	+0·2	+0·3	+0·3	+0·4	+0·4	+0·4	+0·4	+0·3	+0·3	+0·3
Alice Springs, ½ (9+15) (1)	+0·6	+0·5	+0·7	+0·7	+0·8	+0·9	+0·9	+1·0	+1·0	+0·9	+0·9	+0·8	+0·8
William Creek, ½ (9+15) (1)	+0·3	+0·3	+0·2	+0·2	+0·3	+0·3	+0·4	+0·4	+0·4	+0·4	+0·4	+0·3	+0·3
Boulia, ½ (9+15) (1)	+0·4	+0·4	+0·5	+0·5	+0·6	+0·6	+0·7	+0·7	+0·7	+0·7	+0·6	+0·5	+0·6
Mitchell, *and for* Thargomindah, ½ (9+15) (1)	0·0	+0·1	+0·1	+0·2	+0·3	+0·3	+0·4	+0·4	+0·5	+0·5	+0·3	+0·2	+0·3
Rockhampton, ½ (9+15) (1)	−0·2	−0·1	−0·1	0·0	0·0	+0·1	+0·1	+0·1	+0·2	+0·2	+0·1	−0·1	0·0
Brisbane, ½ (9+15) (1)	−0·2	−0·1	−0·1	0·0	0·0	+0·1	+0·1	+0·1	+0·2	+0·2	+0·1	−0·1	0·0
Zone 12.													
Valdivia for Punta Tumbes, ½ (7+14+21) (1)	0·0	0·0	−0·1	−0·1	−0·1	0·0	0·0	0·0	−0·1	−0·1	−0·1	−0·1	−0·1
Santiago, *and for* Valparaiso, ⅓ (7+14+21) (1)	−0·3	−0·2	−0·2	0·0	0·0	+0·1	+0·1	0·0	−0·1	−0·1	−0·2	−0·3	−0·1
Montevideo, ½ (7+14+21) (12)	−0·1	−0·1	−0·1	0·0	+0·1	+0·1	+0·1	+0·1	−0·1	−0·1	−0·1	−0·2	0·0
Cape Town for Danger Point, Riversdale *and* East London, 8½ h. (2)	−0·5	−0·6	−0·7	−0·7	−0·7	−0·7	−0·7	−0·8	−0·8	−0·7	−0·6	−0·5	−0·7
Cape Leeuwin for Perth, ½ (9+15) (1)	−0·2	−0·3	−0·1	0·0	0·0	+0·1	+0·1	+0·1	0·0	−0·1	−0·2	−0·2	−0·1
Breaksea Island for Katanning, ½ (9+15) (1)	0·0	0·0	0·0	0·0	+0·1	+0·2	+0·1	+0·2	0·0	+0·1	+0·1	0·0	+0·1
Coolgardie, ½ (9+15) (1)	+0·1	+0·1	+0·1	+0·1	+0·2	+0·2	+0·3	+0·3	+0·3	+0·3	+0·2	+0·2	+0·2
Eucla, ½ (9+15) (1)	+0·1	+0·1	+0·1	+0·1	+0·1	+0·2	+0·2	+0·2	+0·3	+0·3	+0·2	+0·2	+0·2
Streaky Bay, ½ (9+15) (1)	+0·1	+0·1	0·0	0·0	0·0	+0·1	+0·1	+0·1	+0·2	+0·2	+0·2	+0·1	+0·1
Adelaide, ½ (9+15) (1)	0·0	0·0	−0·1	−0·1	0·0	0·0	+0·1	+0·1	+0·2	+0·2	+0·1	+0·1	0·0
Melbourne, ½ (9+15) (1)	+0·1	0·0	−0·1	0·0	−0·1	0·0	0·0	0·0	0·0	+0·1	+0·2	+0·2	0·0
Bourke, 9 h. (1)	−1·2	−1·1	−1·2	−1·1	−0·9	−0·8	−0·7	−0·8	−1·0	−1·0	−1·0	−1·1	−1·0
Sydney, ½ (9+15) (1)	+0·1	0·0	−0·1	0·0	+0·1	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1
Zone 13.													
Santiago and Punta Arenas for Isla Guafo *and* Punta Galera, ½ (7+14+21) (1)	−0·3	−0·1	−0·1	0·0	+0·1	+0·1	+0·1	0·0	−0·1	−0·1	−0·1	−0·3	−0·1
Hobart, *and for* Launceston, ½ (9+15) (1)	+0·2	+0·2	+0·2	+0·1	0·0	+0·1	+0·2	+0·1	+0·1	+0·2	+0·3	+0·3	+0·2
Zone 14.													
Punta Arenas, *and for* Islota de los Evangelistas *and* Punta Dungeness, ⅓ (7+14+21) (1)	−0·1	−0·1	−0·1	0·0	+0·1	+0·1	+0·2	+0·1	0·0	0·0	0·0	−0·1	0·0
South Georgia, ½ (8+14+20) (1)	0·0	+0·1	0·0	−0·1	−0·1	+0·2	+0·2	+0·2	+0·1	0·0	0·0	+0·1	+0·1
Año Nuevo, ⅓ (8+14+20) (1)	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0

TABLE I.—*Corrections to reduce Means of Pressure at various hours or combinations of hours to True Mean*—continued.

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(4) Lima, A., *O clima de Portugal Continental*, 1922.

(5) Washington, *Report of the International Polar Expedition to Point Barrow, Alaska*, 1885.

(6) *Indian Meteorological Memoirs*, vol. xvii.

(7) Zi-Ka-Wei, *Bulletin des Observations*, 1910.

(8) Rykatchew, M., *La marche diurne du baromètre en Russie*, 1879.

(9) Le Cadet, G., *Le climat du Delta du Tonkin*, 1911.

(10) Tetens, O., u. Linke, F., *Das Klima von Samoa*, 1910.

(11) Gorczynski, Wl., *Pression atmosphérique en Pologne et en Europe*, 1917.

(12) Hann, J. von, *Die ganztägige (24-stündige) Luftdruckschwankung . . .*, 1919.

(13) Cambridge, Mass., Astr. Obs. Harvard College, *Annals*, vol. 49, part i.

(14) Sutton, J. R., *Diurnal Variation of Barometric Pressure*, 1907.

(15) Angot, A., *Etude sur le climat de la France. Pression atmosphérique.* Paris, Ann. bur. centr. météor., *Annales*, 1906, part i, p. 83.

(16) Eredia, F., *Sul clima di Bagdad.* Rome, 1917.

(17) Corrections supplied by Cairo, Phys. Dept.

(18) Madrid, *Anuario del Obs.*, Tomo III., Suppl. 3, p. 4.

(19) Christiania, *Jahrb. d. Norweg. Meteor. Instituts*, 1891, p. xiii.

(20) Cairo, Phys. Dept., *Climatological normals for Egypt and the Sudan, Candia, Cyprus and Abyssinia*, Cairo, 1922.

ADDITIONS AND CORRECTIONS, 1919–1923.

1919-1923 :—

826. *Paramaribo.* Pressure values and diff. from normal from January, 1919 to December, 1923, should be reduced by 1·2 mb.

1920 :—

762. *Ormoc.* Temperature : Year, 𝕋 *for 298·7 read 299·8*, diff. from normal *for* −0·4 *read* +0·7.

1920-1923 :—

725. *Barbados.* Precipitation : diff. from normal *should read* :

Year 1920, — 705. Year 1922, — 359.
Year 1921, — 560. Year 1923, — 477.

1921 :—

452. *Alma Ata* (*Vernyi*). Precipitation :

February, *for* 63 *read* 62.
May, *for* 93 *read* 98.
Year, *for* 717 *read* 721.

1921–1922 :—

212. *Fort Simpson.* Height : *for* 59·4 m. *read* 129 m.

530. *Santa Cruz.* Height changed from 28 m. to 40 m. on September 1st, 1921. September to December, Year, 1921 and January, 1922, height *should read* 40 m. Pressure values September to December, Year, 1921, are corrected to old height of 28 m. Footnote in January, 1922, should be deleted.

Pressure : Year 1921, mean at M.S.L., and diff. from normal *should read* 1022·8, +0·8. January to December, Year, 1922, values of Mean at Station Level require a correction of −0·5 mb. (gravity correction).

1922 :—

524. *Bermuda.* January to December, Year, Pressure values require a correction of −1·1 mb. (gravity correction).

657. *Phu Lien.* Pressure : diff. from normal.

May *for* −3·9 *read* −1·2.
Year *for* −0·6 *read* −0·4.

1021. *Arequipa.* Temperature :
August, September, delete mean maximum, absolute maximum and date, ½ (M + *m*) and diff. from normal.
Year, delete mean maximum, ½ (M + *m*) and diff. from normal.

1045. *Antananarivo.* Height of station has been redetermined as 1375 m. instead of 1400 m. There has been no change of site.
Pressure : Mean at M.S.L. *should read* :

	April	May	June	July	Aug.	Sept.
mb.	.. ..	1015·3 ..	1017·9 ..	1019·8 ..	1023·3 ..	1020·2 ..	1018·9

1242. *East London.* Latitude : May to December, Year *for* 33° 0′ S. *read* 33° 2′ S.

Page 88.—Daily observations of Wind within the Tropics—November. Footnote to this table *should read* ††Mean velocity of the South-East Trade Wind at 608 metres.

1922–1923 :—

1030. *Aracaju. Height* : 1922 *for* 4·0 m. *read* 6·1 m. throughout. January, 1923, delete asterisks and footnote.

1128. *Rio de Janeiro.* Precipitation : January to June, 1922, data are for Morro do Castello ; July to December data are for S. Januario reduced to Morro do Castello. The normals refer to Morro do Castello throughout the year, but it is doubtful if they are comparable with the reduced values.

July, 1922. Footnote *should read* **Station moved to 22° 54′ S. 43° 13′ W., 33·2 m. from July 14th.

August to December, Year, 1922, and January to December, Year, 1923 : Longitude, *for* 43° 10′ W. *read* 43° 13′ W. Height, *for* 33·0 m. *read* 33·2 m.

1225. *Buenos Ayres.* Precipitation : diff. from normal *should read* :

Nov. 1922, — 25. Nov. 1923, — 1.

1923 :—

241. *Haparanda.* Table of Authorities : Period of Normals, *for* **R**, 1869–1924 *read* **R**, 1860–1924.

358. *Kirensk.* Pressure : Mean at M.S.L. and diff. from normal, August *for* 1008·7, + 0·2 *read* 1006·9, — 1·6.
Mean at Station Level, Year, delete value given.

656*a*. *Tengyueh.* Table of Authorities : Remarks ; insert "pressure values appear about 1 mb. too high."

825. *Georgetown, Brit. Guiana.* Height : *for* 1·8 m. *read* 2.0 m.

1025. *St. Helena.* Table of Authorities : Remarks ; insert "q."

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1921.													
530. *Santa Cruz.* Pressure : Mean at Station Level *should read* :—													
mb.	1019·2	1016·9	1023·9	1013·7	1024·6	1021·4	1020·0	1022·2	1017·2	1012·0	1016·4	1023·4	1019·3
1923.													
924. *Manaos.* Temperature : Insert 𝕋 and diff. from normal :—													
a.	*298·0*	*289·6*	*298·3*	*298·2*	*298·4*	*299·0*	*298·8*	*299·9*	*300·2*	*301·2*	*300·4*	*299·5*	*299·2*
Diff. a.	−1·7	−1·2	−1·3	−1·4	−1·3	−0·7	−1·3	−0·6	−0·9	0·0	−0·5	−0·5	−1·0
Table of Authorities : Period of Normals, insert 𝕋, 1911–20. Remarks, insert 𝕋 = ¼ (7 + 21 + M + *m*).													
966. *Port Moresby.* Pressure : Insert mean at M.S.L. and diff. from normal :—													
mb.	1007·5	1008·2	1008·1	1009·1	1009·3	1011·6	..	..	..	..	..	..	..
Diff. mb.	−0·7	−0·7	−1·1	−0·8	−1·3	+0·7	..	..	..	..	..	..	..
1128. *Rio de Janeiro.* Pressure : Mean at M.S.L. and diff. from normal *should read* :—													
mb.	1010·8	1012·0	1012·0	1015·8	1016·0	1018·0	1020·4	1018·8	1015·8	1014·5	1013·2	1012·5	1014·9
Diff. mb.	−0·2	+0·3	−0·8	+1·0	−0·8	−1·0	+0·4	0·0	−1·2	0·0	+0·7	+1·0	−0·1

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.

Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
	° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
Antananarivo	S. 18 55	E. 47 32	‡1375														
1922.																	
January				859·7	1006·3	− 2·8	297·6	300·9	29th	289·3	287·4	3rd	293·5	*292·4*	−0·5	369	+ 70
February				860·5	1007·1	− 1·4	298·0	300·7	18th	289·3	287·0	2nd	293·7	*292·7*	−0·1	430	+142
March				863·3	1010·5	+ 0·6	298·0	300·8	6th	289·1	287·2	2nd	293·5	*292·6*	−0·1	247	+ 62
October				866·3	1015·0	+ 0·5	298·3	301·7	19th	286·0	283·2	23rd	292·1	*290·8*	−0·7	166	+102
November				865·3	1012·6	+ 0·5	299·9	302·6	29th	287·0	283·9	17th	293·5	*292·9*	+0·2	72	− 58
December				865·1	1012·3	+ 1·7	299·9	302·8	12th	287·5	285·4	11th	293·7	*293·2*	+0·5	148	−143
Year				863·8	1014·8	+ 0·5	296·5	302·8	Dec. 12	285·5	277·7	July 22	291·0	*290·0*	−0·5	1466	+110
Bello Horizonte	S. 19 55	W. 43 57	895														
1923.																	
January				913·2	1012·4	+ 0·9	300·5	303·5	19th, 30th	290·5	286·6	3rd	295·5	*294·2*	−0·6	283	− 65
February				913·6	1012·8	+ 0·6	300·1	304·5	7th	291·0	288·4	18th	295·6	*294·3*	−1·0	260	+ 35
March				913·5	1012·4	− 0·1	300·8	303·5	sev. dates	290·8	287·6	15th	295·8	*294·7*	0·0	199	+ 13
April				916·2	1015·4	+ 1·5	300·8	303·0	5th	289·6	287·8	21st	295·2	*294·1*	+0·8	34	− 26
May				..	..	..	298·5	302·5	1st	287·5	280·2	27th	293·0	*292·1*	+0·6	56	+ 42
June				917·0	1017·6	− 1·1	297·1	299·2	12th	285·5	282·8	26th	291·3	*290·0*	0·0	47	+ 38
July				918·7	1020·0	+ 0·8	297·0	301·5	31st	281·9	277·4	7th	289·4	*288·2*	−1·5	3	− 7
August				917·6	1018·0	− 0·6	298·0	302·4	2nd	285·8	283·2	19th, 20th	291·9	*290·9*	0·0	36	+ 20
September				915·2	1015·4	+ 0·2	297·5	302·0	16th	287·7	280·5	4th	292·6	*291·8*	−1·3	172	+137
October				913·4	1012·8	+ 0·1	298·4	303·7	14th	289·8	285·6	20th	294·1	*293·3*	−1·1	191	+ 62
November				913·1	1012·3	+ 0·9	299·2	303·2	30th	290·3	287·0	20th	294·8	*294·1*	−0·3	229	0
December				913·5	1011·8	+ 0·6	302·7	306·6	6th	291·4	286·9	9th	297·0	*296·4*	+2·3	176	−121
Year				..	..	..	299·2	306·6	Dec. 6	288·5	277·4	July 7	293·8	*292·8*	−0·2	1686	+128

Name of Station.	Authority for Current Data.	Period of Normals.	Remarks.
Bello Horizonte	MS. data supplied by Directoria de Meteorologia, Rio de Janeiro.	**P**, 15 yrs., 1910–26. 𝕋, 1910–21. **R**, 15 yrs., 1910–25.	**P** = ⅛ (7 + 14 + 21). 𝕋 = ¼ (7 + 14 + 2 × 21).

* For formulæ employed *see* above † Estimates not based on at least six equally-spaced observations each day are in *italics*

RÉSEAU MONDIAL, JANUARY 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF JANUARY 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N.

JANUARY—ZONE 1.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23 N.	156 17 W.	7·0	..	1016·6	..	245·6	266·9	18th	238·1	229·1	30th	241·8	..	−2·8	..	..
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124	Upernivik	72 47	56 7	19·2	1005·5	1008·1	+ 2·3	251·9	271·3	10th	243·7	237·7	29th	247·8	*247·3*	−3·6	27	+ 16
125	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133	Jan Mayen	70 59	W 8 18	23·1	992·4	995·3	..	..	274·9	16th	264·6	259·7	23rd	..	*267·0*	..	87	..
135	ϕSpitsbergen(GreenHarbour)	78 2	E 14 14	11·4	994·6	996·1	− 9·1	..	275·4	7th	256·3	241·3	4th	..	260·3	+3·0	42	+ 7
139	Björnöen	74 28	19 15	40·5	989·1	994·2	..	..	276·2	4th	263·8	255·8	31st	..	*266·4*	..	41	..
140	Gjesvaer	71 6	25 22	6·5	993·1	993·9	− 7·5	..	276·6	18th	268·6	264·6	26th	..	*270·6*	+1·3	44	− 13
141	Mehavn	71 1	27 47	**	993·5	994·6	− 7·0	..	274·4	4th	266·8	261·1	2nd	..	*269·3*	+1·3	54	− 13
142	Vardö	70 22	31 8	6·8	995·3	996·2	− 8·6	..	274·6	6th	268·0	262·2	25th	..	*270·3*	+2·8	49	− 21
143	Malye Karmakouly	72 23	52 43	14·8	999·9	1001·8	− 5·9	267·3	273·2	19th	260·7	248·9	8th	264·0	*263·9*	+7·4	119	+112
147	Waigatz	70 24	58 47	11·2	1003·1	1004·6	− 4·1	264·5	272·4	19th	254·0	234·2	16th	259·2	*259·6*	..	4	..
148	Dickson	73 30 N.	80 23 E.	13	1004·0	1005·8	..	253·3	266·6	21st	245·8	233·1	16th, 17th	249·6	..	..	8	..

Between Latitude 70° N. and 60° N.

JANUARY—ZONE 2.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
207	Nome	64 30 N.	165 24 W.	6·7	..	1007·8	− 4·4	260·1	273·0	18th	248·8	233·0	24th	254·4	*254·7*	−1·2	94	+ 67
208	Candle	65 55	161 57	2·4	..	..	..	255·2	272·4	17th, 27th	243·9	229·1	27th	249·6	..	0·0	13	..
205	Tanana	65 10	152 6	67·1	..	1012·8	− 5·7	252·9	274·1	23rd	243·4	224·1	26th	248·2	..	+1·5	19	+ 2
206	Rampart	65 30	150 15	122	..	..	..	250·1	274·7	19th, 20th	240·6	219·1	27th	245·3	..	+0·7	36	+ 19
207	Valdez	61 7	146 16	8·2	..	1006·8	− 1·5	267·7	275·2	23rd	259·6	249·7	1st	263·6	..	−1·3	86	− 12
208	ϕEagle	64 46	141 12	254	..	1016·6	− 2·3	249·4	263·0	23rd	240·0	226·3	26th	244·7	..	−2·4	5	− 6
209	ϕDawson	64 4	139 29	324	976·3	1021·9	− 1·8	244·7	255·2	31st	238·0	228·6	2nd, 3rd	241·3	..	−2·1	20	0
210	Carcross	60 11	134 34	662	..	..	..	251·6	275·2	19th	245·2	233·0	3rd, 4th	248·4	..	−5·3	..	..
211	Fort Good Hope	66 25	128 53	65·2	1012·0	1021·4	..	250·1	273·0	19th	232·0	223·0	27th	241·0	..	..	21	+ 3
212	Fort Simpson	61 52	121 35	129	999·7	1017·8	− 4·1	250·9	268·6	25th	240·0	230·8	8th	245·5	..	+0·7	34	+ 20
213	Hay River	60 51	115 20	161	993·6	1016·0	− 3·5	250·9	269·1	20th	241·1	228·0	4th	246·0	..	+0·1	13	0
225	Jacobshavn	69 13	51 2	12·6	1003·8	1005·5	+ 2·3	257·6	272·9	11th	249·6	236·3	26th	253·6	*252·8*	−2·2	28	+ 19
226	Godthaab	64 11	51 43	20·4	997·9	1000·5	+ 2·2	264·9	273·2	11th	258·3	251·8	18th	261·6	*261·8*	−1·4	8	− 29
227	Ivigtut	61 12	48 10	13·0	1000·6	1002·3	+ 4·4	270·0	277·8	10th, 11th	262·6	254·8	24th	266·3	*266·2*	+0·7	68	− 15
229	Angmagsalik	65 37	37 33	31·7	994·7	998·8	+ 1·0	264·8	271·8	3rd	258·2	251·2	14th	261·5	*261·5*	−3·1	49	− 35
231	Stykkisholm	65 5	22 46	25	994·0	997·1	− 0·3	274·2	281·0	15th	267·9	260·0	29th	271·1	*270·9*	+0·1	112	+ 41
232	Vestmanno	63 24	20 17	132	981·0	997·4	− 0·9	277·9	282·5	18th	270·6	262·4	29th	274·3	*273·2*	−0·6	134	− 12
233	Grimsey	66 33	18 1	22·0	993·9	996·7	− 3·9	273·2	279·5	16th	268·2	263·0	27th	270·7	*270·7*	−0·5	..	..
234	Teigarhorn (Berufjord)	64 41	14 22	18·0	995·8	998·0	− 2·0	274·9	282·1	12th	267·8	261·0	28th	271·3	*271·4*	−0·6	71	− 55
235	ϕThorshavn	62 3	6 45	26·3	998·3	1001·5	− 2·3	279·0	282·7	24th, 25th	273·2	268·8	29th	276·1	*276·4*	+0·2	219	+ 48
236	Lerwick	60 9	W 1 11	46·9	..	1005·5	− 1·1	279·6	283·6	19th, 25th	275·3	271·9	sev. dates	277·4	*277·8*	+0·4	137	+ 29
237	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1000·4	1005·9	− 4·0	277·9	281·5	25th	273·4	267·2	30th	275·7	*275·6*	+1·2	350	+182
238	Aalesund	62 28	6 10	6·3	1001·5	1002·3	− 5·2	..	282·4	25th	273·0	265·6	21st	..	*276·1*	+0·7	150	+ 16
239	Trondhjem	63 26	10 25	39·5	995·7	1000·6	− 7·3	275·7	280·5	4th	271·1	266·0	31st	273·4	*273·4*	+3·0	111	+ 25
240	Bodö	67 17	14 24	22·3	992·4	995·2	− 9·5	..	277·4	18th	270·8	265·0	24th	..	*273·4*	+2·0	90	+ 5
241	Haparanda	65 50	24 9	9·2	999·0	1000·2	− 9·4	269·8	274·0	9th, 26th	263·3	246·5	24th	266·5	*266·8*	+5·0	108	+ 69
242	ϕHelsingfors	60 10	24 57	11·7	1005·9	1007·4	− 5·2	272·3	276·2	26th	269·2	256·7	31st	270·7	*271·0*	+4·3	62	+ 17
242a	Kuopio	62 54	27 40	90·3	993·2	1004·7	− 8·7	270·4	277·1	26th	266·4	257·9	31st	268·4	*268·5*	+4·8	37	− 9
243	Kola	68 53	33 1	6·7	998·0	998·9	− 8·1	269·1	275·4	4th	262·2	241·7	25th	265·6	*265·8*	+4·4	36	+ 24
244	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
245	Arkhangelsk	64 34	40 31	6·3	1005·9	1006·7	− 5·2	268·8	274·7	10th	264·3	250·0	19th	266·6	*266·5*	+7·0	28	+ 5
246	ϕMezen	65 50	44 16	14·9	1003·9	1005·8	− 5·0	267·4	273·6	2nd	261·8	251·7	19th	264·6	*264·8*	+6·5	15	+ 2
247	Ust-Tsylma	65 25	52 18	? 68	..	..	..	265·9	273·2	2nd, 3rd	259·3	244·6	18th	262·6	*262·5*	+8·0	19	− 2
248	ϕTcherdyn	60 24	56 31	?177	996·8	1020·1	+ 0·2	263·2	273·7	2nd	258·6	246·9	19th	260·9	*260·9*	+6·3	39	+ 1
249	Berezov	63 56	65 4	30·5	1011·8	1017·1	+ 3·0	261·8	271·0	5th	252·3	236·4	9th	257·0	*257·5*	+8·0	8	− 9
250	Obdorsk	66 31	66 35	23·7	1010·7	1013·9	− 0·5	259·2	271·0	5th	248·4	230·8	9th	253·8	*253·6*	+6·1	15	+ 6
251	ϕSourgout	61 15	73 24	? 40	1016·2	1021·6	+ 2·8	..	271·3	29th	249·7	228·0	18th	..	*254·5*	+4·6	28	+ 10
252	Doudinka	69 23	86 4	20·0	1012·3	1015·1	− 0·3	..	260·9	26th	240·1	223·3	9th, 10th	..	*244·3*	+1·0	1	− 5
253	Touroukhansk	65 47	87 57	45·0	1015·6	1022·0	− 0·3	..	267·5	30th	237·1	215·8	18th	..	*243·1*	−1·6	26	+ 14
264	Viliouisk	63 45	121 35	120	..	..	..	..	253·3	27th	231·7	219·4	14th, 16th	..	*235·4*	+1·4	11	+ 2
262	Iakoutsk	62 1	129 43	108	1010·0	1026·2	− 4·1	..	251·0	28th	223·1	215·4	17th	..	*226·6*	−2·8	4	− 5
263	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		° , N.	° , E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

(44093)

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*.
** Height changed from 4·6 m. to 8·2 m. from January 28th. ϕ Change of Normals *see* pages 105 and 106.

JANUARY—ZONE 3.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1001·7	− 3·6	273·5	278·0	18th	268·7	260·8	2nd, 7th	271·1	..	+3·4	58	+ 7
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1006·1	+ 2·5	276·1	280·2	18, 22, 27	270·5	266·3	8, 10, 26	273·3	*273·4*	+0·4	142	+ 77
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	266·6	275·2	22nd	258·1	245·2	11th	262·3	..	−0·4	83	+ 33
306	Kodiak (Radio)	57 46	152 22	6·1	..	1004·7	+ 1·0	275·3	279·1	19th	269·5	263·6	16th	272·4	*272·5*	+1·2	28	+ 65
										Sea Temp.							
307	55°—50° N. 150°—145° W.	††51 26	††147 29	§(19)	..	1007·4	+ 2·4	..	..	278·0|+ 0·6	..	..	..	..	276·3	+0·6	..	..
309	Sitka	57 3	135 19	27·4	..	1005·7	− 2·9	275·9	279·7	9th	270·5	262·4	18th, 28th	273·2	*273·2*	+0·3	163	− 31
310	Prince Rupert	54 18	130 18	51·8	1002·5	1009·0	− 2·2	276·9	280·8	3rd, 4th	271·3	262·4	29th	274·1	*274·4*	+0·9	200	− 19
311	Barkerville	53 2	121 35	1274	861·1	1013·9	− 2·2	266·9	274·7	16th	259·1	244·1	29th	263·0	*263·4*	−1·1	75	− 10
312	Kamloops	50 41	120 29	385	971·3	1019·7	− 3·3	272·5	280·3	7th	266·9	252·4	30th	269·7	*269·9*	+1·8	8	− 8
313	Calgary	51 2	114 2	1045	887·2	1014·4	− 4·0	271·9	283·6	16th	256·9	241·3	30th	264·4	*263·7*	+2·3	8	− 5
314	Fort Chipewyan	58 42	111 10	218	988·5	1018·5	− 1·8	254·1	271·9	21st	243·6	230·2	29th	248·8	*248·5*	+0·2	19	− 4
315	Prince Albert	53 10	105 38	442	960·3	1018·7	− 1·3	261·5	270·8	12th	248·5	233·6	5th	255·0	*254·7*	+2·4	11	+ 10
316	Qu'Appelle	50 30	103 47	645	934·2	1017·2	− 3·1	262·9	279·7	17th	252·1	239·7	5th	257·5	*257·4*	+2·5	30	− 4
317	Minnedosa	50 15	99 50	515	951·6	1019·3	− 1·5	259·7	276·9	17th	250·0	234·7	5th	254·9	*254·7*	+1·0	18	..
318	Berens River	52 18	97 23	216	..	..	..	259·7	267·4	21st	246·1	237·4	5th	252·9	..	+1·7	..	+ 3
318a	ϕPort Nelson	57 0	92 51	14·9	1014·5	1016·5	− 0·9	247·7	264·1	13th	238·8	230·2	27th	243·2	..	−2·6	18	+ 12
319	Fort Hope	51 33	87 49	‡260	984·6	1020·1	+ 1·1	256·3	271·3	17th	243·0	231·3	3rd	249·7	*249·9*	−1·1	16	− 6
320	ϕMoose Factory	51 14	80 30	9·1	1018·7	1020·0	+ 3·5	257·6	270·8	18th	242·4	231·3	11th	250·0	..	−2·6	20	..
321	Fort George	53 50	79 5	97·5	..	..	..	253·0	266·3	18th	240·1	227·4	16th	246·6	*246·7*	..	..	− 24
322	Mistassini Post	50 15	73 55	383	..	..	..	258·9	274·1	1st	243·2	229·7	12th	251·1	..	−0·7	33	..
323																		+ 72
324	Natashquan	50 8	61 48	6·1	..	..	..	265·8	275·8	20th	253·4	239·7	12th	259·6	..	+1·9	155	..
326	ϕBelle Isle	51 53	55 23	130	989·2	..	..	264·2	274·1	2nd	256·3	246·9	7th, 18th	260·3	*260·7*	+0·2	..	..
										Sea Temp.								
331	55°—50° N. 30°—25° W.	††51 14	††27 8	§(43–46)	..	1018·8	..	..	..	283·1|+ 1·0	..	..	..	..	282·4	..	..	..
333	53°—48° N. 20°—15° W.	††50 49	††17 28	§(53–57)	..	1025·6	..	..	..	283·9|− 0·1	..	..	..	..	284·0	..	..	..
333a	62°—57° N. 20°—15° W.	††57 41	††16 35	§(8)	..	..	..	..	..	282·0|+ 0·7	..	..	..	..	281·7	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1024·8	+10·9	282·9	285·2	31st	279·4	273·6	12th	281·2	281·3	+1·4	68	+ 3
335	Aberdeen	57 10	W 2 6	26·8	..	1011·6	+ 1·2	281·2	285·2	19th	276·2	272·4	13th	278·7	278·6	+2·1	57	+ 3
336	ϕGreenwich	51 28	0 0	46·3	..	1021·9	+ 5·6	281·2	285·2	31st	274·9	269·1	17th	278·1	278·3	+1·5	27	..
337	Uccle	50 48	E 4 22	100	1009·7	1022·2	+ 5·2	279·0	282·3	31st	274·3	268·2	18th	276·6	276·7	+1·6	55	− 8
338	De Bilt	52 6	5 11	3·0	1019·7	1020·1	+ 3·6	279·7	282·2	9th, 31st	274·0	269·1	19th	276·9	277·0	+2·4	48	+ 20
338a	Hamburg	53 33	9 58	40·3	1011·6	1016·6	− 0·9	278·1	280·8	31st	274·6	270·2	19th	276·3	276·3	+3·3	71	− 2
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1011·9	1012·5	− 2·7	277·4	281·3	26th	273·7	267·1	19th	275·5	*275·4*	+3·1	35	+ 3
340	Potsdam	52 23	13 4	84·9	1007·1	1017·8	+ 0·1	276·9	280·0	25th	273·0	266·0	22nd	274·9	274·9	+2·9	43	+ 21
340a	Uppsala	59 51	17 38	24	1003·1	1006·1	− 6·3	273·6	279·3	27th	268·8	259·1	17th	271·2	271·5	+2·7	53	..
341	Warsaw	52 13	21 3	89·9	1005·4	1016·7	− 2·6	274·7	280·7	1st	270·9	262·6	31st	272·8	272·8	..	46	− 16
342	Tartu (Ülikooli)	58 23	26 43	74·5	1000·7	1010·2	− 5·0	272·2	276·9	27th, 28th	268·5	261·6	19th	270·4	270·4	+4·0	15	− 1
343	Petrograd	59 56	30 16	4·8	1009·0	1009·6	− 4·8	271·0	276·8	1st	267·2	260·3	29th, 30th	269·1	*269·1*	+3·9	23	+ 13
344	Kiiv	50 27	30 30	183	995·2	1018·4	− 2·1	272·2	277·0	26th	268·7	263·4	31st	270·4	*270·4*	+3·4	45	+ 15
344a	Moscow	55 50	37 33	167	996·2	1017·8	− 1·5	267·8	276·1	28th	263·1	254·6	8th	265·4	*265·4*	+3·2	17	..
345	Saratov	51 33	45 57	122	1009·2	1025·5	+ 2·2	264·5	275·5	28th, 29th	257·0	243·9	11th	260·8	*260·8*	+0·8	12	..
346	Kazan	55 47	49 8	79·9	1014·3	1024·9	+ 4·5	264·4	275·4	28th	258·1	246·6	19th	261·2	*261·2*	+1·8	16	− 1
347	Orenburg	51 45	55 6	109	1016·8	1031·7	+ 6·4	..	273·8	29th	252·0	237·9	10th	..	*256·1*	−1·8	8	− 8
348	Perm	58 1	56 16	163	1003·4	1025·0	+ 4·6	263·9	273·0	28th, 29th	257·9	247·2	22nd	260·9	*260·8*	+3·6	29	− 6
349	Sverdlovsk	56 50	60 38	281	989·2	1026·1	+ 5·4	264·2	272·2	29th	257·7	247·8	23rd	261·0	*260·9*	+4·1	5	− 4
350	Tobolsk	58 12	68 14	108	1011·5	1026·1	+ 5·5	261·5	272·4	29th	253·0	236·8	9th	257·2	*257·1*	+3·1	22	− 13
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	..	269·5	29th	250·1	236·7	20th	..	*254·3*	−1·9	2	− 9
352	Omsk	55 1	73 19	108	1015·8	1030·5	+ 5·2	260·6	273·8	29th, 30th	251·1	232·4	19th	255·8	*255·9*	+2·4	5	− 14
353	Barnaoul	53 20	83 48	162	1012·8	1035·0	+ 5·6	259·0	271·1	30th	250·0	226·2	20th	254·5	*254·5*	−0·9	35	+ 4
354	Tomsk	56 30	84 58	122	1013·9	1030·7	+ 4·5	..	271·6	29th	250·5	230·1	19th	..	*254·4*	+0·8	38	− 1
355	ϕMinousinsk	53 43	91 41	248	1001·6	1035·8	+ 4·4	..	269·6	9th	..	..	..	..	*253·8*	+1·0	7	+ 1
356	Eniseisk	58 27	92 10	77·6	1018·7	1029·5	+ 2·7	..	273·2	30th	243·7	221·7	19th	..	*250·3*	−1·2	23	+ 6
357	Irkutsk	52 16	104 19	467	972·0	1035·6	+ 2·8	256·7	267·3	31st	245·9	230·9	21st	251·3	251·2	−1·4	10	+ 6
358	Kirensk	57 47	108 7	263	995·1	1032·0	+ 2·9	..	268·8	31st	240·9	221·9	12th	..	*246·5*	+0·6	26	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	973·6	1025·8	− 1·3	252·4	266·7	31st	240·3	229·4	14th	246·4	*247·0*	+0·9	4	+ 1
362	Blagovyeshchensk (Bureau Météor)	50 16	127 30	142	1004·2	1023·9	− 1·3	254·2	266·0	28th	243·6	237·9	5th, 15th	248·9	*248·6*	−0·5	2	− 1
363																		..
364																		..
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		..
367																		..
368	Petropavlovsk (Phare)	52 53	158 43	87·1	987·4	998·6	− 5·2	265·0	273·0	2nd, 3rd	259·8	252·3	31st	262·4	*262·1*	0·0	241	+169
369																		..
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

JANUARY—ZONE 4.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1005·4	1014·1	− 1·9	279·1	284·9	16th	275·4	268·4	30th	277·3	277·1	+0·4	163	+ 48
412	Portland, Oregon	45 32	122 41	46·6	1011·4	1016·9	− 1·6	281·3	286·3	7th	276·8	269·7	30th	279·0	*279·1*	+2·2	243	+ 77
413	Macleod	49 44	113 24	953	..	..	..	273·6	281·3	8th, 17th	261·2	242·4	30th	267·4	*267·4*	+2·4	19	+ 2
414	Helena	46 34	112 4	1253	869·9	1015·6	− 2·4	275·3	286·3	10th	266·1	248·6	29th	270·7	*271·1*	+4·1	11	− 12
414a	Salt Lake City	40 46	111 54	1329	868·6	1019·3	− 0·5	279·0	286·9	7th	271·5	266·9	27th	275·2	*275·1*	+3·8	48	+ 13
415	Cheyenne	41 8	104 48	1856	809·5	1016·2	+ 0·1	278·4	286·9	17th	267·8	259·1	31st	273·1	*273·3*	+3·5	2	− 8
416	Nortly Platte	41 8	100 45	860	916·5	1018·6	− 1·0	280·9	291·3	17th	266·1	258·0	30th	273·5	*272·5*	+5·7	3	− 8
416a	Bismarck	46 47	100 38	510	955·1	1018·9	− 1·4	268·3	279·7	17th	255·8	244·1	31st	262·1	*262·2*	+1·8	7	− 6
417	Winnipeg	49 53	97 7	232	988·6	1019·6	− 1·3	261·7	278·6	17th	251·0	235·8	5th	256·3	*256·2*	+3·2	42	+ 19
418	Duluth	46 47	92 6	345	974·7	1018·3	− 0·7	266·8	276·9	18th	258·0	245·8	19th	262·4	*262·4*	+3·2	41	+ 15
419	Port Arthur	48 27	89 12	196	993·6	1019·4	+ 1·3	264·5	275·8	18th	254·9	241·9	6th	259·7	*260·2*	+1·6	21	+ 2
420	Chicago	41 53	87 37	251	987·0	1017·9	− 0·9	275·6	282·4	18th	269·1	261·3	10th	272·3	*272·9*	+4·0	23	− 29
421	Toronto	43 40	79 24	116	1003·7	1018·7	+ 0·8	271·1	278·3	18th	262·9	248·4	17th	267·0	267·2	−0·6	80	− 6
422	ϕNew York (Central Park)	40 47	73 58	47·4	1012·3	1018·3	+ 0·2	275·4	284·7	1st	268·3	260·2	18th	271·8	271·9	−0·5	178	+ 88
423	ϕSt. John, N.B.	45 17	66 4	36·2	1009·3	1014·0	− 1·6	267·5	279·3	1st	259·4	247·2	18th	263·5	263·8	−2·4	142	+ 20
424	S.W. Point, Anticosti	49 24	63 33	9·1	1011·2	1012·4	+ 0·7	265·6	275·2	2nd	257·1	245·8	18th	261·3	*261·2*	−0·7	81	+ 19
424a	Sable Island (Main Station)	43 57	60 6	7·6	1010·4	1011·4	− 2·8	273·6	280·2	4th, 10th	268·0	260·2	30th	270·8	*270·8*	−1·4	129	− 5
425	Port aux Basques	47 35	59 10	9·1	1008·6	1009·8	− 1·3	269·1	276·3	1st	261·9	253·0	18th	265·5	*265·3*	−1·5	122	− 25
426	St. John's, Newfoundland	47 34	52 42	48·8	1003·0	1009·2	− 0·7	272·4	278·6	2nd	264·7	255·2	8th	268·6	*268·7*	+0·3	154	+ 18
										Sea Temp.							
430	50°—45° N. 35°—30° W.	††49 14	††32 28	§(47-49)	..	1020·1	..	..	..	283·9|−1·6	..	..	..	..	283·7	..	..	..
435	Madrid	40 24	3 41	667	946·6	1027·3	+ 3·3	281·8	286·1	31st	272·3	269·4	30th	277·0	*276·6*	−0·6	2	− 24
436	Nantes	47 15	W 1 34	30·5	1022·4	1027·2	+ 7·0	281·5	285·1	2nd	275·7	270·4	24th	278·6	278·6	+1·2	38	− 26
437																		..
438	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1019·0	1025·6	+ 5·5	280·1	284·1	31st	274·6	268·6	18th	277·4	277·4	+1·8	40	+ 1
438a	Marseille	43 18	5 23	75	..	1018·2	+ 0·7	283·6	289·1	31st	273·2	268·8	23rd	278·4	*278·1*	−1·7	3	− 39
439	Zürich	47 23	8 33	493	964·8	1025·8	+ 3·6	275·9	279·8	31st	270·7	264·1	22nd	273·3	273·1	+1·3	42	− 10
440	Rome	41 54	12 27	45·5	1010·8	1016·2	− 0·1	283·6	287·4	3rd	276·0	272·1	19th	279·8	*279·4*	−0·7	43	− 40
440a	Vienna	48 15	16 22	203	995·4	1020·7	0·0	276·5	281·3	10th	272·9	268·2	19th	274·7	274·8	+3·4	53	+ 16
441	Budapest	47 31	19 2	130	1002·9	1019·3	− 1·8	276·7	281·9	2nd	272·6	264·5	22nd	274·7	274·7	+3·5	52	+ 14
442	ϕSofia	42 42	23 20	550	952·8	1020·7	− 1·5	274·3	278·7	13th	268·7	257·4	19th	271·5	*271·4*	+0·4	27	− 7
	Bucharest	44 25	26 6	82	1008·9	1019·3	− 1·9	274·3	279·1	10th	268·5	257·9	23rd	271·4	271·3	+1·5	76	+ 42
443																		..
444	Odessa (Observatory)	46 26	30 46	42·8	1013·1	1018·6	− 1·9	273·9	278·8	1st	269·9	263·7	23rd	271·9	*272·1*	+1·7	29	+ 3
444a	Kharkiv (University)	50 0	36 14	140	1001·6	1019·9	− 2·5	270·8	275·6	27th	266·6	260·7	31st	268·7	*268·8*	+3·6	44	+ 10
445	ϕTiflis	44 44	37 49	37·1	1013·2	1017·8	− 1·6	281·3	287·0	1st	275·3	269·4	31st	278·3	*278·2*	+2·4	75	− 3
446	Astrakhan	41 43	44 48	404	972·3	1021·8	− 1·1	279·7	286·0	18th	272·9	268·0	6th	276·3	*275·9*	+2·8	7	− 7
447	Fort Alexandrovsk	46 21	48 2	— 20	1026·4	1023·9	+ 0·6	273·0	280·5	29th	267·3	261·7	11th	270·2	*269·8*	+3·9	1	− 12
448	ϕKrasnovodsk	44 31	50 7	— 23·0	1026·2	1023·3	+ 1·8	275·0	280·6	29th	269·1	262·7	10th	272·0	*271·8*	+2·5	4	− 5
		40 0	52 59	— 4·6	1022·2	1021·6	− 0·1	279·1	284·0	28th	273·9	269·3	19th	276·5	*276·2*	+0·6	1	− 13
449	Kasalinsk	45 46	62 7	66·7	1021·2	1030·2	+ 4·4	..	..	..	254·6	245·7	21st	..	*258·9*	−2·2	4	− 4
450	Tashkent	41 20	69 18	478	966·6	1025·7	− 0·1	278·6	285·1	31st	269·6	263·4	21st	274·1	*273·5*	+1·5	12	− 35
451	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	925·5	1031·1	+ 2·4	268·8	278·2	28th	258·2	249·4	22nd	263·5	*263·4*	−1·0	8	− 24
461	ϕMoukden	41 48	123 23	43·8	1023·7	1029·6	+ 1·7	267·8	276·5	20th	254·3	247·5	2nd	261·1	260·6	+0·9	1	− 3
462	Joshin	40 40	120 11	31·9	1010·8	1024·0	+ 3·1	271·3	277·9	11th	261·8	253·3	1st	266·5	266·3	−0·5	4	− 23
463	Yuki	42 20	130 24	65·6	1015·2	1023·9	+ 2·0	267·7	274·7	21st	259·0	249·2	1st	263·3	*263·1*	−0·4	1	− 4
464	Vladivostok	43 7	131 53	128	1006·8	1023·9	+ 0·3	262·9	271·5	6th	255·0	249·2	14th	259·0	*259·2*	−0·1	1	− 6
465	Ochiai	47 20	142 47	27·4	1009·2	1012·9	− 0·5	262·4	271·3	21st	249·9	237·7	26th	256·1	256·9	−0·9	21	+ 21
466	Nemuro	43 20	145 35	26·7	1008·5	1012·0	0·0	270·2	277·8	12th	262·0	255·0	27th, 28th	266·1	266·9	−1·1	35	+ 1
466a	ϕSyana	45 14	147 53	39·3	1004·6	1009·7	− 0·4	268·7	275·9	12th	262·7	253·3	31st	265·7	265·7	−1·8	113	+ 17
		N.	E.															

Between Latitude 40° N. and 30° N.

JANUARY—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
508	35°—30° N. 145°—140° W.	††32 3	††142 57	§(19)	..	1023·0	− 0·3	..	..	Sea Temp. 290·2|+0·6	..	..	..	..	..	..	..	..
511	San Francisco	37 48	122 26	47·2	1014·6	1020·3	+ 0·6	284·7	287·4	17th	279·2	275·2	30th	281·9	*281·8*	−0·8	72	− 49
512	San Luis Obispo	35 18	120 39	61·3	1012·0	1019·6	− 0·1	290·1	301·9	9th	279·6	274·1	30th	284·8	*284·2*	+1·0	115	− 13
513																		..
514	San Diego	32 43	117 10	26·5	1014·0	1017·3	− 1·1	291·0	302·4	9th	282·0	277·4	4th	286·5	*286·2*	+1·3	34	− 12
515	Modena	37 48	113 54	1670	833·5	1017·9	− 0·7	281·1	290·2	7th	266·6	256·3	27th	273·8	*273·1*	+3·0	36	+ 13
516	Santa Fé	35 41	105 57	2138	786·9	1019·3	+ 1·3	280·3	286·3	11th	268·9	262·4	2nd	274·6	*274·0*	+3·4	3	− 14
517	Denver	39 45	105 0	1613	834·7	1015·2	− 0·2	282·5	292·4	10th	270·1	264·7	30th	276·3	*277·6*	+4·5	3	− 8
518	Abilene	32 23	99 40	530	956·2	1017·9	− 1·1	291·4	298·6	8th	278·3	270·2	3rd	284·9	*284·1*	+5·0	79	+ 57
	Saint Louis	38 38	90 12	173	997·2	1018·3	− 2·0	280·9	289·7	18th	273·4	268·6	6th	277·2	*277·5*	+4·4	53	− 5
519	Mobile	30 41	88 2	17·4	1019·0	1021·0	+ 0·1	292·1	297·4	12th	283·2	276·3	4th	287·7	*287·3*	+4·1	67	− 53
520	Nashville	36 10	86 47	166	1000·5	1020·6	− 0·6	285·2	293·0	11th	275·3	270·2	4th	280·2	*280·2*	+3·4	150	+ 30
521	Charleston	32 47	79 56	14·6	1019·4	1021·0	+ 0·1	289·4	297·4	22nd	280·7	276·3	18th	285·1	*284·7*	+2·2	56	− 22
522	Washington	38 54	77 3	34·1	1015·2	1019·6	− 0·9	279·3	291·3	21st	271·9	265·8	17th	275·6	*275·8*	+1·0	108	+ 21
523																		..
524	Bermuda	32 17	64 46	46·0	1014·7	1020·2	+ 0·5	292·6	295·6	9th	285·9	279·1	18th	289·3	*289·2*	−1·1	112	+ 1
530	Santa Cruz (Flores)	39 27	31 9	40	1020·9	1025·9	+ 5·1	290·5	292·6	11th	286·7	283·8	27th	288·6	*288·8*	+1·4	152	− 64
531	ϕHorta	38 32	28 38	65	1019·7	1027·5	+ 6·1	290·4	292·8	11th	287·2	285·2	16, 19, 20	288·8	288·4	+0·8	63	− 53
532	Ponta Delgada	37 44	25 40	22	1026·3	1028·8	+ 6·8	289·8	291·2	11th	286·9	283·7	18th	288·4	288·6	+1·2	..	..
532a	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	64	− 50
533	Madeira (Funchal)	32 38	16 55	25	‡1025·1	‡1028·0	+ 6·2	290·4	292·5	13th	285·4	282·7	26th	287·9	*287·7*	−0·5	11	− 76
534																		..
535																		..
535a	Lisbon	38 43	9 9	95	1015·6	1027·4	+ 6·1	285·5	288·6	1st	279·6	276·3	15th	282·5	282·4	−0·9	1	− 91
536	Melilla	35 17	2 59	40	1018·7	1023·6	+ 3·4	287·5	288·6	2nd	278·2	277·0	16th, 25th	282·9	*284·7*	−2·4	115	+ 13
536a	Gibraltar	36 6	5 21	16·2	..	1024·4	+ 3·2	287·9	291·9	2nd	280·7	278·0	28th, 29th	284·3	*284·4*	−1·4	58	− 71
536b	Colomb Béchar	31 36	2 4	769	932·0	1023·1	..	285·8	290·0	9th, 11th	273·4	269·0	21st, 23rd	279·6	*278·9*	..	2	..
		N. ° ′	W. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* p

RÉSEAU MONDIAL

JANUARY—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1018·6	1021·4	+ 1·9	284·7	288·8	9th	276·5	274·0	20th, 25th	280·6	..	−2·9	25	− 10
538	Algiers (Bouzaréah)	36 47	3 2	344	979·7	1021·4	+ 1·5	282·6	285·0	3rd, 10th	278·3	276·0	21st	280·4	*280·4*	−2·2	273	+ 171
539	ϕTunis	36 48	10 10	21	1013·5	1016·0	..	285·5	289·0	11th	278·8	275·3	19th	282·2	*281·8*	−0·3	103	+ 47
539*a*	Malta	35 53	14 30	56·4	..	1015·3	− 1·8	286·1	288·0	1, 4, 7	282·3	279·1	19th	284·2	*283·8*	−1·7	103	+ 41
540	Riposto	37 41	15 14	14·2	..	1017·3	− 1·7	286·2	288·2	5th	280·5	276·2	19th	283·3	*283·2*	−1·0	147	+ 41
541	Athens	37 58	23 43	107	1002·8	1015·8	− 2·3	285·5	288·8	1st	279·3	272·5	21st	282·4	282·1	+0·6	102	+ 39
542	ϕAlexandria	31 12	29 53	32·0	1014·6	1018·4	+ 0·3	292·5	295·5	7th, 10th	283·5	277·5	21st	288·0	*287·3*	+0·3	17	− 9
543	Nicosia (P.W.D.)	35 9	33 22	159	998·0	1017·0	− 0·3	288·5	291·3	6th	278·8	275·8	20th, 23rd	283·7	..	+0·9	73	+ 4
544	Beirut	33 54	35 28	33·7	..	1017·6	− 0·2	289·9	294·2	29th	284·3	281·8	17th	287·1	*286·9*	+0·8	187	+ 4
545	Hinaidi	33 17	44 29	32·3	..	1020·5	− 0·8	287·6	289·9	26th	276·7	271·8	28th	282·1	*281·3*	..	10	− 74
546	Lenkoran	38 46	48 52	−20·0	1023·4	1021·0	− 1·5	..	283·7	26th	275·4	271·5	29th	..	*278·2*	+2·0	21	+ 179
547	Tehran	35 41	51 25	1220	..	..	..	275·3	280·6	23rd	270·4	266·9	29th	272·8	*272·4*	−1·8	221	+ 153
548	Meshed	36 16	59 35	946	882·5	..	..	280·1	286·8	27th	269·8	260·2	29th	274·9	..	+0·6	36	+ 15
549	Seistan	31 0	61 30	610	..	..	..	287·1	293·2	19th	274·2	268·1	8th	280·7	..	..	15	+ 6
550	Quetta	30 11	67 3	1677	835·4	..	+ 0·2	282·2	288·6	4th	271·0	267·4	7, 8, 22	276·6	*276·2*	−0·7	66	+ 17
551	Peshawar	34 2	71 37	339	981·1	1022·5	+ 1·1	289·0	293·1	18th	276·8	272·8	1st	282·9	*281·8*	−0·8	30	+ 15
551*a*	Lahore	31 34	74 20	214	993·8	1020·0	+ 1·0	291·2	295·1	10th	279·2	274·9	2nd	285·2	*284·4*	−0·2	43	+ 15
552	Simla	31 7	77 8	2204	782·8	..	+ 1·3	281·6	285·5	30th	275·9	269·7	13th	278·7	*278·3*	0·0	82	+ 19
552*a*	Leh	34 10	77 42	3503	665·9	..	+ 0·9	267·7	273·3	11th	255·8	249·5	25th	261·7	*260·6*	−4·4	28	− 20
559	Hankow	30 35	114 17	37·0	1024·9	1029·6	+ 1·5	282·1	288·7	13th	272·4	265·3	25th	277·3	*277·0*	−0·2	16	− 3
560	ϕTientsin	39 10	117 10	5·0	1030·1	1030·7	+ 2·5	273·6	280·2	11th	263·5	257·5	2nd	268·5	*268·4*	−0·5	1	− 8
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1028·7	+ 2·2	281·5	296·3	21st	271·6	263·7	4th	276·5	275·6	−0·6	7	+ 43
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1018·4	1027·2	+ 2·2	271·7	277·4	21st	264·2	253·6	2nd	267·9	267·7	−1·7	32	+ 27
562*a*	Nagasaki	32 44	129 52	133	1007·4	1023·9	+ 2·0	281·3	291·5	22nd	274·5	268·4	2nd	277·9	278·0	−0·7	52	+ 30
563	Kyoto	35 1	135 44	42·9	1016·5	1021·9	+ 2·7	280·3	289·0	22nd	270·4	266·1	2nd	275·3	274·5	+1·1	32	+ 8
564	Tokyo	35 41	139 46	5·8	1017·9	1018·6	+ 2·3	279·9	292·2	22nd	270·2	266·4	4th	275·1	274·7	−1·3	64	+ 19
565	Kanayama	37 53	140 46	24·6	1014·8	1017·9	+ 1·7	277·1	284·7	12th	267·4	259·7	28th	272·3	271·9	−1·8	45	− 60
566	Miyako	39 38	141 59	30·4	1012·2	1016·1	+ 1·3	277·9	287·0	12th	266·1	261·4	18th	272·0	271·5	−0·9	9	− 86

JANUARY—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1016·6	+ 0·7	294·7	298·6	3rd	288·8	285·2	28th	291·7	*291·3*	..	28	..
605	Honolulu	21 19	157 52	11·6	1013·8	1015·1	− 0·8	297·2	299·1	..	292·6	287·4	..	294·9	*294·7*	+0·4	287	+ 192
614	La Paz	24 10	110 20	12	1012·9	1014·3	..	297·9	304·8	20th	284·8	278·4	5th	291·3	..	..	0	− 2
615	Chihuahua	28 38	106 4	1423	860·8	1017·9	..	291·5	297·0	25th	278·4	270·0	3rd, 4th	284·9	*284·9*	+1·0	9	− 5
616	ϕLeon	21 7	101 41	1809	824·5	1016·5	+ 2·1	297·2	300·2	8th	277·4	274·0	1st, 12th	287·3	*288·3*	+1·6	5	− 5
616*a*	ϕMonterry	25 40	100 18	528	956·4	1017·2	− 1·4	296·7	305·5	27th	284·0	278·1	1st	290·3	*289·6*	+2·8	8	− 9
617	Tulancingo	20 5	98 22	2181	791·2	..	..	292·2	295·8	27th	278·4	275·0	13th, 18th	285·3	*284·6*	−0·1	8	− 95
618	Galveston	29 18	94 50	16·5	1018·1	1020·3	− 0·4	292·4	295·8	7th	280·9	277·4	23rd	289·7	*289·4*	+4·7	178	+ 10
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1021·3	+ 1·0	293·5	299·1	31st	284·7	277·4	25th	289·1	*288·4*	+3·2	134	− 21
619	Merida, Yuc.	20 58	89 38	22	1015·5	1018·1	0·0	301·1	303·4	22nd	291·0	286·6	20th	296·1	*294·8*	+0·4	3	− 59
620	Havana	23 8	82 21	24·3	..	1020·7	+ 2·0	299·5	302·4	1st	291·5	287·9	12th	295·5	*295·1*	+0·6	6	− 45
620*a*	Key West	24 33	81 48	6·7	1019·4	1020·0	+ 0·3	297·3	300·2	8th	291·5	286·9	11th	294·4	*293·4*	+0·7	9	− 43
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1020·3	+ 0·9	297·2	..	..	..	..	..	..	‡*295·1*	−0·2	12	..
622	Watling Island	24 6	74 26	33·5	1016·0	1019·9	+ 1·8	..	304	5th	..	291	18th	..	*297·1*	..	..	..
633	Izaña	28 19	16 30	2367	766·5	..	..	276·3	285·0	2nd	269·9	265·9	28th	273·1	*273·2*	−3·6	30	− 22
634	La Laguna	28 28	W16 20	547	957·9	1022·5	+ 2·6	287·0	288·8	26th, 29th	281·8	277·8	25th	284·4	*283·9*	−0·9	82	..
641	Siwa	29 12	E 25 29	−23	1021·2	1018·4	..	290·6	295·0	27th	276·7	274·0	sev. dates	283·6	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	1004·6	1018·4	− 0·3	292·1	299·6	27th	281·6	277·6	22nd	286·9	*286·6*	+0·7	0	− 10
643*a*	Aswan	24 2	32 53	99·6	1004·6	1016·4	− 1·4	298·4	306·5	28th	284·3	277·0	18th	291·4	*290·4*	+2·4	..	..
644	Tor	28 14	33 37	1·9	1016·3	1016·4	− 0·9	294·2	298·1	28th	282·6	279·1	18th	288·4	*287·6*	+0·7	0	..
647	Bushire	28 59	50 53	4·3	1018·8	1019·4	+ 0·3	290·7	295·9	23rd	284·1	280·2	28th, 29th	287·4	*287·2*	0·0	140	− 71
648	Jask	25 44	57 47	4·0	1017·6	1018·0	− 0·6	297·6	300·4	29th	289·4	286·5	12th	293·5	*293·3*	+0·8	18	− 11
649	Karachi	24 53	66 57	4·0	1018·4	1018·8	+ 0·7	297·6	302·1	31st	286·9	284·1	21st, 22nd	292·3	*292·1*	−0·3	9	− 8
650	Jacobabad	28 17	68 29	56·7	1014·0	1020·8	+ 2·1	292·7	295·3	30th, 31st	279·6	275·7	1st	286·1	*285·4*	−1·4	1	− 15
651	Jaipur	26 56	75 52	436	969·0	1020·6	+ 1·4	296·7	300·4	30th	281·2	277·6	23rd	288·9	*288·2*	−0·3	2	− 11
652	Nagpur	21 8	79 5	310	980·0	1018·0	+ 0·7	301·8	304·4	19th	285·8	280·2	3rd	293·8	*293·4*	−0·1	0	− 11
653	Allahabad	25 25	81 51	94·2	1008·0	1018·8	+ 1·3	297·1	301·1	22nd	281·6	276·9	3rd	289·3	*288·4*	0·0	1	− 8
653*a*	Darjeeling	27 3	88 18	2265	777·8	..	+ 1·3	283·5	287·1	13th	276·5	273·6	2nd	280·0	*279·6*	+2·2	0	− 2
654	Calcutta	22 36	88 23	6·4	1016·4	1017·2	+ 0·2	298·6	302·3	24th	285·6	281·6	3rd	292·1	*291·7*	+0·2	0	− 2
655	Gauhati	26 8	91 41	59·7	1010·9	1018·1	− 0·3	297·5	300·1	24th	283·7	281·1	3rd	290·6	*289·9*	+0·6	0	− 2
655*m*	Cherrapunji	25 15	91 42	1313	871·2	..	+ 0·2	290·5	294·1	10th	282·5	278·8	2nd	286·5	*285·8*	+1·7	0	− 2
655*a*	Akyab	20 11	92 56	6·1	1014·4	1015·1	− 0·5	299·3	300·8	25th	288·1	285·4	19th	293·7	293·2	−0·5	0	− 2
656	Mandalay	21 59	96 0	76·2	1007·9	1016·8	+ 0·4	302·2	305·1	31st	287·2	286·1	2nd, 3rd	294·7	*294·6*	+0·4	0	− 3
656*a*	Tengyueh	25 2	98 33	1626	836·4	1014·9	− 0·8	291·3	293·0	10th	273·1	271·3	1st	282·2	*281·5*	+0·6	5	− 24
657	ϕPhu Lien	20 48	106 38	116	1006·3	1020·2	+ 0·8	293·9	299·2	9th	287·5	282·4	4th	290·7	289·8	+0·2	7	− 20
658	ϕMoncay	21 31	107 51	9·0	1019·6	1020·7	+ 0·6	293·2	298·2	9th	285·3	279·1	30th	289·3	*289·6*	+0·5	3	− 20
659	ϕHongkong	22 18	114 10	33·2	..	1020·7	+ 1·0	291·6	296·3	15th	286·4	280·6	4th	289·0	288·6	0·0	0	− 8
660	ϕAmoy	24 27	118 4	ca.3	1021·7	1022·1	+ 0·7	290·6	294·1	12, 15, 22	283·9	279·1	3rd	287·2	*286·9*	−0·6	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1021·6	1022·7	+ 1·6	292·8	300·9	21st	285·2	281·3	3rd	289·0	288·3	+0·1	23	+ 61
661*a*	Basco	20 28	121 59	18·7	..	1015·6	+ 0·4	297·0	‡300·3	16th	292·3	288·5	2nd	294·7	*294·8*	−0·5	336	+ 229
662	ϕNaha	26 13	127 41	10·5	1021·0	1022·3	+ 2·3	292·3	298·5	22nd	285·2	281·2	11th	288·7	288·5	−0·6	31	− 69
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1018·5	1019·0	+ 1·4	293·1	296·4	8th	286·9	280·2	12th	290·0	290·0	−0·7	22	− 77
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals, *see* pages 109 and 110.

JANUARY—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	955·8	1011·7	..	305·7	308·5	18th	288·7	286·9	23rd	297·2	*295·5*	+1·2	3	..
716	Morelia	19 42	101 7	1923	811·6	1015·1	..	293·6	295·8	27th	281·2	278·0	20th	287·4	*286·7*	+0·5	36	..
717	Mexico, Tacubaya	19 24	99 12	2309	776·0	..	+ 0·9	293·6	297·0	30th	277·9	274·9	20th	285·7	285·3	+0·6	3	− 6
718	ϕSalina Cruz	16 12	95 12	56	1005·8	1012·2	+ 2·2	302·0	304·5	29th	295·3	292·2	21st	298·7	*298·4*	+0·9	0	− 1
719	ϕSan Salvador	13 42	89 12	682	937·5	1013·6	+ 0·2	304·1	305·8	28th	288·2	285·6	8th	296·1	*294·7*	−0·4	0	− 7
721	Belize	17 29	88 12	5·2	1016·3	1017·0	0·0	299·4	303·6	3rd	294·5	290·2	17th	296·9	*296·5*	0·0	92	− 50
722	Jamaïça (Negril Point)	18 15	78 23	10·1	..	1015·7	+ 0·6	302·3	303·8	7th	292·8	290·1	8th	297·6	*297·3*	0·0	51	+ 15
723	Port au Prince	18 33	72 20	37·4	1012·2	1016·5	+ 0·6	302·9	305·8	30th	292·8	290·9	25th	297·9	*297·3*	−0·4	3	− 28
724	Caracas	10 30	66 56	1042	899·9	1015·5	+ 0·6	295·8	298·8	27th	286·5	284·4	11th, 16th	291·2	*289·9*	−1·2	67	+ 45
724*a*	Montserrat	16 41	62 9	39·6	1011·1	1015·7	− 0·5	300·1	301·9	20th	293·6	291·3	5th, 25th	296·8	*296·4*	−0·7	141	+ 24
725	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·9	‡1014·0	+ 0·5	300·7	303·0	6th	294·8	293·6	18th, 20th	297·7	*297·3*	−0·3	78	− 34
	Barbados	13 8	59 36	55·2	..	1014·2	− 0·1	300·7	301·6	31st	293·9	291·6	6th	297·3	*295·9*	−0·5	45	− 41
731	São Vicente, C. Verde Is.	16 54	25 4	11	1014·7	1016·1	+ 0·9	296·7	298·0	5th	291·5	290·0	14th	294·1	*294·8*	+0·1	0	− 5
733	São Tiago, C. Verde Is.	14 54	23 31	34	1010·9	1014·9	− 0·2	297·0	299·0	24th	293·1	291·6	18th	295·0	*295·0*	−0·3	0	− 3
734	Bathurst	13 27	16 34	1·8	1014·0	1014·2	+ 0·7	301·4	305·2	23rd	289·3	285·8	19th	295·4	*295·2*	−0·8	0	0
736	M'Carthy Island	13 33	14 45	1·1	..	..	..	306·1	308·6	25th	289·7	286·3	6th, 13th	297·9	..	−0·4	0	− 1
736	Niénébalé	12 57	7 26	300	..	..	..	302·8	308·4	14th	286·0	282·6	25th	294·4	..	−0·4	0	..
	Timbuktu	16 43	W 3 2	270	..	..	..	299·8	304·3	14th, 16th	284·1	277·9	26th	292·0	*291·7*	−2·2	0	0
737	ϕSokoto	13 2	E 5 14	353	..	..	..	306·9	311·3	30th	289·4	285·8	12th	298·2	*297·9*	+1·5	0	0
738	Kaduna Capital	10 32	7 25	637	942·7	1013·4	− 1·5	305·8	308·0	23rd	288·8	286·9	11, 14, 27	297·3	*297·0*	+1·5	0	0
739	Hadejia	12 40	10 5	?	..	..	..	305·8	310·8	24th, 31st	286·8	284·1	2nd, 12th	296·3	*296·0*	+1·1	0	0
740	ϕMaiduguri	11 47	13 11	361	..	..	..	308·3	313·6	28th	287·9	283·0	13th	298·1	*297·8*	+1·9	0	− 1
741	El Fasher	13 32	25 18	730	..	..	..	306·8	310·1	26th	282·3	278·2	19th	294·6	*293·6*	..	0	..
743	El Obeid	13 11	30 14	569	946·3	1009·5	− 3·1	306·5	309·6	25, 26, 27	287·4	281·3	18th	297·0	*296·2*	+3·6	0	0
744	ϕKhartoum	15 37	32 33	390	965·6	1009·4	− 3·4	305·7	310·6	25th	290·2	284·5	18th	297·9	*298·1*	+2·6	0	0
745	Port Sudan	19 37	37 13	5·5	1012·8	1013·5	− 1·3	301·5	303·1	26th	294·6	292·5	19th	298·0	*297·5*	+1·6	1	− 10
746	Berbera, Somaliland	10 22	45 2	9·5	1015·5	1016·6	+ 0·8	303·7	305·8	3rd	290·3	288·6	3rd, 5th	297·0	*298·1*	−0·9	0	− 3
	Aden	12 45	45 3	28·7	1012·6	1016·0	− 0·4	299·4	300·3	19th	295·3	293·4	29th	297·3	*296·7*	−0·3	0	− 8
757	Bombay	18 54	72 49	11·3	1013·5	1014·7	− 0·6	302·1	304·8	30th	293·5	291·5	13th, 23rd	297·8	296·9	+0·6	0	− 3
758	Kodaikanal	10 14	77 28	2343	771·2	..	− 1·0	290·6	294·2	7th	281·7	277·9	31st	286·2	*285·4*	+0·6	169	+ 96
759	Bangalore	12 59	77 38	921	912·8	1014·9	− 0·7	299·8	302·2	23rd	287·4	284·3	3rd	293·6	*293·1*	+0·3	11	+ 5
760	Madras	13 4	80 14	6·7	1014·4	1015·2	− 0·4	300·6	301·7	29th	293·4	290·6	22nd, 31st	297·0	*296·6*	−0·4	113	+ 78
761	Vizagapatam	17 42	83 19	11·6	1015·5	1016·9	+ 0·4	299·4	301·7	26th	292·1	289·4	3rd	295·8	*295·4*	−0·2	1	− 11
765	Port Blair	11 40	92 40	180	1010·1	1012·1	− 1·5	301·8	303·1	24th	297·4	294·9	16th, 17th	299·6	*299·2*	−0·3	80	+ 38
767	Rangoon	16 46	95 48	5·5	1014·1	1014·7	− 0·2	304·8	306·8	24th	293·3	290·0	6th	299·1	*298·9*	+1·3	0	− 5
768	Saigon (Cap St. Jacques)	10 20	107 5	180	991·0	1011·6	0·0	300·5	303·0	13th	293·9	291·8	6th	297·2	*296·7*	−0·5	11	+ 7
769	Nhatrang	12 15	109 12	3·6	1013·6	1014·0	− 0·6	299·1	302·7	13th	293·6	290·2	30th	296·3	*295·9*	−0·8	138	+ 72
	Bolinao	16 23	119 53	7·1	..	1009·6	− 2·0	303·2	305·2	8th	293·0	289·7	27th	298·1	*298·1*	−0·7	1	− 10
771a	Vigan	17 34	120 23	12·2	..	1011·0	− 1·6	303·4	306·4	6th	295·6	293·6	25th	299·5	299·2	+0·8	1	0
772	Manila	14 35	120 59	14·2	..	1011·6	− 0·6	303·0	306·2	8th	293·7	290·8	23rd	298·3	297·4	−0·4	8	− 13
774	ϕOrmoc	11 0	124 36	5·6	..	1008·2	− 1·8	304·0	305·9	9th	295·4	292·4	24th	299·7	*299·1*	+1·0	303	+ 124
775	Guam, Ladrone Is.	13 24	144 38	20·4	..	1007·9	− 1·8	302·1	304·7	14th	297·2	295·5	19th	299·7	*299·5*	+0·5	52	− 10
		N.	E.															

JANUARY—ZONE 8.

Between Latitude 10° N. and 0°.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
802	Fanning Island	3 54	159 23	5·3	1009·1	1009·8	..	304·1	305·4	30th	297·3	295·8	2nd	300·7	*300·2*	+0·4	7	− 277
802*a*	Colon	9 23	79 23	11·0	..	1011·3	− 0·4	302·5	303·6	13th	297·3	295·2	7th	299·9	*299·5*	+0·2	50	− 45
803	Bogota	4 36	74 5	2645	744·2	..	..	292·0	294·0	29th	280·7	276·2	13th	286·4	*285·8*	..	7	− 51
803	Merida, Venez.	8 36	71 9	1641	‡841·9	..	+ 0·2	295·2	297·5	27th	286·2	284·0	3, 9, 16	290·7	*289·8*	−0·6	33	− 41
804	Ciudad Bolivar	8 9	63 33	38	1007·3	1011·7	..	303·2	304·4	29th	294·9	293·8	15th, 16th	299·1	*298·6*	..	14	+ 1
804*a*	El Peru, Guayanavieja	7 19	61 49	220	985·2	1010·4	− 0·6	300·4	303·3	3rd	291·2	289·1	12th	295·8	*295·2*	−1·1	112	+ 16
805	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1013·2	+ 0·4	301·4	302·4	7th	296·8	295·8	10, 15, 28	299·1	*298·8*	−0·2	157	− 42
806	Paramaribo	5 49	55 9	3·7	‡1012·8	‡1013·2	+ 0·3	301·8	303·0	4th	295·1	292·4	12th	298·5	*298·3*	+0·5	288	+ 73
	Cayenne	4 56	52 21	6	..	..	..	303·1	307·0	20th	293·5	291·0	sev. dates.	298·3	*297·6*	−0·4	274	− 91
811	10°—5° N. 30°—25° W.	††7 30	††28 0	§(68·70)	..	1012·4	+ 0·4	..	..	Sea Temp. 298·6	..	..	..	..	298·1	−0·5	..	..
812	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
813	Freetown, Sierra Leone	8 29	13 9	68·3	1002·5	1010·3	− 0·5	304·9	308·0	20th	296·3	293·6	11th, 12th	300·6	*299·8*	+0·2	0	− 10
813	Assuantsi	5 18	1 15	101	..	..	..	303·8	305·8	26th, 30th	294·2	291·9	13th, 14th	299·0	*298·4*	..	29	− 7
814	ϕAccra	5 33	W 0 12	27·0	1005·4	1008·5	..	303·9	304·7	24, 25, 31	296·1	294·7	9, 14, 30	300·0	*299·5*	+0·5	0	− 15
814	ϕLagos	6 27	E 3 24	4·6	1009·0	1009·5	− 0·1	304·0	305·2	17th, 30th	297·1	294·8	3rd	300·5	*299·8*	+0·3	23	− 3
815	Zungeru	9 48	6 10	130	..	..	..	308·8	311·3	19, 20, 21	292·2	288·0	20th 21st	300·5	*300·2*	+0·6	0	− 1
815	ϕYola	9 12	12 30	259	..	..	..	308·9	311·3	19th, 20th	..	..	..	..	‡*299·9*	+1·1	0	− 1
816	Wau	7 42	28 3	440	..	..	..	‖309·7	312·0	30th, 31st	291·0	288·0	2nd, 3rd	300·4	*298·3*	−0·2	0	− 1
832	Malakal (Kodok)	9 35	31 37	394	963·1	1007·0	− 1·9	310·8	312·6	sev. dates	291·7	287·6	19th	301·2	‡*299·7*	+1·5	0	0
832*a*	Mongalla	5 11	31 47	439	956·4	1004·4	− 2·0	..	..	..	..	..	..	..	..	..	0	− 2
833	ϕEntebbe	0 5	32 29	1171	882·6	1007·9	− 0·7	300·4	303·0	21st	289·4	287·4	19th, 26th	294·9	*295·7*	+1·2	6	− 60
834	Mbaicoy	8 17	72 49	2·1	1011·7	1011·9	+ 0·1	..	..	..	..	..	..	..	..	..

JANUARY—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1008·9	1009·8	+ 0·7	..	..	..	296·9	296·1	2nd	..	..	..	4	— 99
924	ϕManaos	3 8	60 1	43·8	..	..	..	302·0	306·0	14th	295·4	294·4	24th, 25th	298·7	..	..	450	+202
926	Taperinha	2 30	54 20	20·0	1008·0	1010·4	— 0·3	302·7	304·4	17th	295·4	294·3	28th	299·0	*297·9*	—0·2	208	+ 39
927	ϕTuryassu	1 43	45 26	**9·1	1007·7	1008·9	— 1·5	304·4	306·6	1st	295·5	294·0	25th	300·0	*299·3*	+0·1	131	+ 34
928	ϕBarra do Corda	5 30	45 16	81·0	998·9	1008·2	— 1·2	303·9	306·1	5, 12, 30	294·6	292·6	26th	299·2	*297·8*	—0·5	219	+ 47
929	Quixeramobim	5 16	39 15	207	987·9	1011·0	+ 0·3	307·2	309·0	9th	295·6	295·0	30th	301·4	*301·6*	+0·4	31	+ 3
930	ϕFernando Noronha	3 50	E 32 25	106	998·6	1010·5	— 1·2	301·7	302·5	29th	297·3	295·7	5th	299·5	*299·0*	+0·3	60	— 50
934	Ascension Island	7 56	W 14 25	16·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
939	Loanda	8 49	E 13 13	59·3	..	..	..	300·8	302·4	13th	296·4	294·6	6th	298·6	298·5	+0·4	86	+133
940	Brazzaville	4 17	15 16	321	..	..	..	..	..	..	..	..	..	..	..	..	237	..
943	Masaka	0 21	31 47	?1280	..	..	..	303·6	304·7	2, 11, 17	..	..	..	..	*293·4*	+0·3	14	— 57
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	298·6	301·3	19th, 28th	285·8	281·3	2nd, 26th	292·2	..	..	10	— 50
944a	Zanzibar	6 10	39 11	21·9	1010·2	1012·7	— 3·0	302·7	303·6	30th	299·2	297·6	26th	300·9	*300·5*	—0·3	101	+ 6
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·4	302·6	6th, 7th	297·7	295·2	27th	300·1	*299·7*	—0·2	0	— 66
947	Seychelles, Port Office	4 37	55 27	4·6	1011·0	1011·6	+ 0·3	300·5	302·1	2nd	297·6	296·9	24th	299·1	*298·4*	—0·4	498	+ 98
957	ϕPadang	0 56	100 22	6·7	1009·5	1010·3	— 0·7	..	..	..	..	..	..	..	..	..	312	+ 21
958	Batavia	6 11	106 50	8·0	1008·1	1009·0	— 0·9	301·9	303·9	9th	296·1	294·8	31st	299·0	298·5	0·0	351	+ 17
958a	Pontianak	0 1	109 20	2·6	1009·7	1010·0	— 0·4	..	..	..	..	..	..	..	..	..	256	— 17
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	269	+ 46
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	510	..
962	Amboina	3 42	128 10	4·2	1007·0	1007·6	— 1·3	..	..	..	..	..	..	..	..	..	143	— 153
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	176	..
965	Daru	9 4	143 13	7·6	..	..	..	303·8	..	..	297·4	..	..	300·6	*300·2*	+0·2	263	+ 7
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	305·0	..	..	297·4	..	..	301·2	*300·7*	+0·3	192	+ 2
967	Rabaul	4 9	152 12	20·7	..	1005·9	..	304·3	306·3	6th	295·9	294·1	2nd	300·1	*299·6*	—0·2	405	+192
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1007·0	1007·2	+ 0·2	303·7	305·9	16th	297·8	296·3	9th	300·7	*300·5*	—0·3	1530	+1061
970	Ocean Island	0 52 S.	169 35 E.	54·0	999·5	1005·6	— 1·3	304·1	305·2	2nd, 10th	297·8	295·2	28th	300·9	*300·3*	0·0	125	— 166

JANUARY—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1008·4	+ 0·5	302·9	304·8	14th, 28th	296·7	295·4	5th	299·8	300·0	+0·8	475	+162
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	304·4	306·9	31st	296·3	293·0	29th	300·3	*300·1*	+0·6	93	— 17
1021	ϕArequipa	16 22	71 33	2452	759·7	..	— 0·7	291·9	294·4	22nd	283·2	281·4	11th	287·6	*286·5*	—0·1	48	— 7
1022	Tacna	18 0	70 18	500	..	..	..	..	..	..	..	..	..	..	..	..	0	— 1
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	727·3	..	..	289·0	294·8	18th	281·9	279·5	9th	285·5	*285·2*	..	258	— 22
1025	ϕCorumba	18 59	57 39	116	994·2	1007·2	— 0·5	305·7	308·0	2nd, 3rd	295·6	293·2	1st, 2nd	300·6	*299·9*	+0·3	204	+ 3
1026	ϕCuyaba	15 36	56 6	165	989·7	1008·4	0·0	304·9	308·5	1st	295·3	292·4	1st	300·1	*298·6*	—0·1	271	+ 41
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	— 112
1028	Caetite	14 3	42 37	897	914·0	1011·7	— 0·3	301·0	303·7	16th	291·1	289·3	14th, 23rd	296·0	*297·0*	+0·8	24	— 88
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1006·1	1011·5	— 1·0	302·7	304·0	13th	296·3	295·4	28th	299·5	*299·3*	+0·7	28	— 90
1030	ϕAracaju	**10 55	**37 3	**6·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1035	St Helena	15 57	W 5 40	‡604	946·3	1015·1	+ 1·8	294·4	296·4	2nd	287·0	283·8	9th	290·7	*290·8*	—0·3	41	— 57
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	298·6	..	..	290·0	..	..	294·3	..	..	..	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	241	— 50
1041a	Elisabethville	11 39	27 28	1236	876·3	1008·1	+ 0·4	302·0	305·8	20th	289·2	287·1	1st	295·6	..	+0·5	299	— 50
1042	Gwelo	19 28	29 48	1417	859·0	1008·7	— 1·1	299·8	304·9	18th	290·2	288·8	6th	295·0	..	+0·8	231	— 66
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡851·2	‡1006·0	— 1·3	300·8	308·8	2nd	288·5	286·6	5th	294·7	*293·7*	+0·8	146	— 57
1044	Zomba	15 23	35 18	955	905·1	1008·6	+ 0·4	301·8	304·7	3rd, 19th	291·6	290·2	11th, 12th	296·7	*296·1*	+1·0	183	+ 13
1045	ϕAntananarivo	18 55	47 33	‡1375	864·6	1011·1	+ 1·9	300·1	302·8	5th	288·3	285·8	2nd	294·2	294·1	+1·2	193	— 57
1046	Tamatave	18 10	49 24	5	..	..	..	302·6	304·0	..	295·0	293·5	..	298·8	*298·3*	..	254	+ 4
1047	Vohémar	13 21	50 1	3	..	..	..	305·5	306·8	..	296·6	294·7	..	301·1	*300·5*	..	220	..
1048	Antalaha	14 58	50 19	3	1012·0	1012·3	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1012·8	1013·3	+ 0·7	302·1	303·6	31st	297·2	295·8	11th	299·7	*299·3*	—0·7	3	— 73
1057	ϕChristmas Island	10 25	105 43	5·5	1006·4	1007·0	— 0·8	304·1	306·3	11th	296·4	295·2	6th, 18th	300·3	*299·3*	—0·1	62	— 7
1061	Kupang	10 10	123 34	45·1	1002·9	1008·3	— 0·5	302·8	304·7	31st	297·2	295·2	30th	300·0	299·6	+0·1	378	+ 53
1061a	ϕDerby	17 18	123 40	16·2	1004·4	1006·3	— 0·6	306·2	309·4	25th	298·3	295·2	31st	302·2	..	—1·2	205	+ 18
1062	ϕHall's Creek	18 13	127 46	373	965·1	1005·8	— 0·6	308·9	311·9	17th	296·1	293·0	10th	302·5	*302·0*	—0·9	113	— 74
1063	Darwin	12 28	130 51	29·6	1002·4	1005·7	— 0·3	305·2	308·6	29th	297·9	295·3	20th	301·6	*300·6*	—0·2	502	+ 77
1064	Daly Waters	16 16	133 23	211	979·9	1003·0	— 1·9	309·9	314·7	29th	297·2	295·2	2, 16, 20	303·6	*303·1*	+0·4	77	— 38
1065	ϕMein	13 13	142 47	122	990·7	1004·1	— 1·5	304·9	307·2	26th, 29th	295·2	293·0	26th	300·1	..	—0·5	459	+ 205
1066	ϕGeorgetown, Queensland	18 22	143 32	302	972·8	1005·8	— 0·8	307·8	310·8	31st	295·3	290·8	24th	301·6	..	+0·5	205	— 134
1066a	Willis Island	16 18	149 59	8·5	1004·2	1005·2	..	303·8	305·3	19th	298·9	297·2	10th	301·3	*300·9*	..	134	..
1067	Samarai	10 37	150 40	15·2	..	1006·7	— 1·0	..	..	..	..	..	..	..	‡*301·6*	+0·4	309	— 3
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1007·1	1007·7	— 1·2	303·3	305·6	22nd	296·4	295·2	1st, 2nd	299·9	*299·7*	+0·3	190	— 3
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 112 and 113.
**Turyassu. Height changed from 15·1 m. to 9·1 m. from January 1st. ϕ Change of normals, *see* pages 112 and 113.
**Aracaju. Station moved to 10° 55′S, 37° 3′W, 6·1 m. from January 1st.

JANUARY—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	302·8	305·2	13th	295·9	292·4	27th	299·3	*299·1*	+0·5	140	—102
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1010·7	1013·9	— 0·6	294·1	296·0	25th	288·7	286·6	13th	291·4	*291·3*	+1·4	0	0
1122	Iquique	20 12	70 11	9	1011·5	1012·5	— 1·1	296·5	300·6	24th	288·9	287·8	15th	292·7	*293·4*	—0·6	0	0
1123	Catamarca	28 27	65 47	510	950·7	1007·4	+ 1·0	305·1	313·1	27th	291·2	286·0	14th	298·1	297·1	—2·7	159	+ 84
1124	Salta	24 46	65 28	1178	881·1	1008·7	+ 0·3	299·5	305·3	18th	289·5	286·7	22nd	294·5	294·3	—0·7	222	+ 50
1125	Goya	29 9	59 15	26	1004·6	1007·6	— 0·1	307·5	313·7	24th	293·4	289·6	21st	300·5	299·6	+0·9	79	— 36
1126	Asuncion	25 17	57 41	93	997·6	1008·3	+ 0·2	308·6	313·0	13th	295·4	292·0	10th	302·0	301·0	+1·0	210	+ 71
1127	Curityba	25 25	49 17	908	910·1	1009·9	— 1·5	298·9	304·2	29th	289·0	285·2	12th	294·0	*292·9*	—0·4	222	+ 51
1128	Rio de Janeiro	22 54	W43 10	33·0	1006·9	1010·7	— 0·3	303·9	308·5	30th	294·9	292·4	3rd	299·4	298·7	+0·3	‡86	..
1139	ϕWindhoek	22 34	E17 5	1669	..	..	..	301·8	306·8	2nd	290·0	282·5	27th	295·9	*295·9*	—0·6	30	— 50
1140																		
1141	Kimberley	28 42	24 47	1202	879·0	1006·6	— 0·5	304·5	309·7	19th	290·3	285·1	31st	297·4	297·3	+0·1	58	— 4
1141a	Johannesburg	26 11	28 4	1806	820·4	1009·6	— 1·1	296·6	302·6	20th	286·3	282·5	31st	291·4	*290·9*	—0·8	189	+ 32
1142	Bulawayo	20 9	28 35	1340	865·2	1007·8	— 1·3	298·9	303·4	3rd	290·2	288·2	31st	294·6	*294·1*	—0·3	171	+ 21
1143	Durban	29 52	31 3	15·2	1011·7	1013·5	— 1·2	300·3	304·4	19th	293·7	290·7	12th	297·0	*296·6*	—0·3	152	+ 36
1144	Lourenço Marques	25 58	32 36	59	..	1010·8	— 1·6	302·4	312·5	2nd	295·0	292·8	4th, 23rd	298·7	298·5	+0·1	221	+ 94
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	291·3	288·6	..	..	..	..	71	..
1146	Fort Dauphin	25 2	46 58	25	..	1012·5	..	302·2	304·0	..	295·5	293·0	..	298·9	*298·4*	..	17	..
1147	Mauritius	20 6	57 33	55·2	1007·3	1013·6	+ 1·7	303·2	305·9	18th	295·1	292·0	6th	299·1	298·7	—0·3	117	— 80
1159	Onslow	21 43	114 57	4·3	1003·8	1004·6	— 1·4	307·9	316·3	14th	297·0	293·0	22nd	302·4	..	—0·5	141	+117
1160	Cue	27 27	117 52	454	956·5	1006·0	— 1·4	308·9	315·3	1st	294·7	289·8	23rd	301·8	..	—1·4	30	+ 4
1161	ϕNullagine	21 53	120 5	386	962·7	1004·6	— 0·7	310·0	313·1	22nd	296·8	289·7	10th	303·4	..	—1·4	203	+131
1162	Laverton	28 40	122 23	466	957·0	1007·9	— 1·7	309·1	315·5	13th	294·6	287·0	18th	301·8	*301·5*	+0·5	7	—191
1163	Alice Springs	23 38	133 37	587	941·6	1004·6	— 2·6	309·7	314·2	24th	293·2	284·7	19th	301·4	*301·4*	—0·1	5	— 40
1164	ϕWilliam Creek	28 55	136 21	76·2	999·2	1007·6	— 2·0	309·0	318·3	23rd	293·5	286·3	18th	301·2	*300·8*	—0·0	0	— 14
1165	Boulia	22 55	139 38	146	987·9	1003·5	— 1·6	312·3	316·3	17th	297·8	290·3	28th	305·1	*305·1*	+1·3	31	— 23
1166	Thargomindah	27 58	143 43	123	991·9	1005·5	— 1·7	310·3	316·8	24th	296·2	289·2	19th	303·2	*302·8*	+0·5	17	— 19
1167	Mitchell	26 32	147 52	336	969·0	1005·4	..	308·7	314·2	29th	291·6	286·9	20th	300·1	..	+0·6	62	— 24
1167a	ϕRockhampton	23 24	150 30	11·3	1005·5	1006·8	— 2·4	305·4	314·0	30th	295·3	292·7	3rd	300·4	..	+0·5	139	— 93
1168	ϕBrisbane	27 28	153 2	41·8	1003·8	1008·5	— 2·0	303·6	309·1	31st	294·3	290·9	20th	298·9	*298·3*	+0·8	71	— 94
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1008·8	1010·7	— 2·5	299·9	304·7	15th	288·3	283·0	12th	294·1	*293·3*	—0·9	105	+ 13

JANUARY—ZONE 12.

Between Latitude 30° S. and 40° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1221	Juan Fernandez	33 37	78 50	**345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1221a	Punta Tumbes	36 37	73 6	120	999·5	1013·8	— 1·2	291·8	295·0	15th	284·1	282·5	5th	287·9	*288·2*	—0·2	3	0
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1007·9	1012·7	— 1·8	295·7	301·7	23rd	287·4	284·5	31st	291·5	*291·1*	+0·1	0	0
1223	Santiago	33 27	70 42	520	952·3	1011·3	— 0·7	301·8	306·3	15th	285·4	283·4	18th	293·6	*292·3*	—0·3	0	— 1
1224	Cordoba	31 25	64 12	423	961·1	1008·7	— 0·2	304·4	311·8	24th	289·4	284·1	15th	296·9	296·0	—0·2	85	— 22
1225	Bahia Blanca	38 45	62 15	25	1005·6	1008·6	— 2·5	303·2	311·5	25th	290·3	285·0	20th	296·7	296·1	—0·1	83	+ 32
1226	Buenos Ayres (Chacarita)	34 36	58 22	25	1007·7	1010·4	— 1·1	302·4	313·0	24th	290·8	284·5	12th	296·6	296·5	+0·4	33	— 46
1226a	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1009·7	— 1·7	..	306·6	24th	..	287·3	13th	..	*295·3*	—0·1	30	— 38
1227	ϕPorto Alegre	30 2	W51 13	23·5	1005·2	1007·9	— 3·2	302·7	311·2	25th	292·3	286·8	22nd	297·5	296·9	—0·6	112	+ 2
1239	ϕCape Town	33 56	E18 29	12·2	..	1013·4	0·0	299·5	305·9	20th	288·5	285·2	11th	294·0	*292·6*	—0·1	13	— 4
1240	Danger Point	34 37	19 18	27·7	1010·6	1013·9	..	295·6	299·7	4th	289·0	286·9	25th, 30th	292·3	..	+0·8	54	+ 23
1241	Riversdale	34 6	21 16	‡?100	..	..	..	..	..	..	..	..	..	..	..	..	19	— 10
1242	East London	33 2	27 55	44·8	..	1013·4	+ 0·5	297·3	302·4	9th	290·6	287·4	21st	294·0	..	—0·1	202	+141
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1004·6	1011·8	— 0·9	300·3	310·1	31st	288·7	283·6	24th	294·5	*294·0*	—1·7	26	+ 17
1260	Katanning	33 42	117 35	310	976·6	1012·0	— 1·2	301·8	308·6	15th	285·6	281·9	25th	293·7	..	—1·1	8	— 2
1261																		
1262	Coolgardie	30 57	121 10	423	962·2	1009·1	— 2·3	306·4	312·9	26th	289·7	284·4	18th	298·1	*297·8*	—0·1	25	+ 13
1263	Eucla	31 45	128 58	4·6	1010·3	1010·8	— 2·5	297·2	312·4	23rd	289·8	282·9	28th	293·5	*292·8*	—1·0	18	+ 3
1264	Streaky Bay	32 48	134 13	13·1	1009·8	1011·1	— 2·3	302·8	314·2	22nd	288·9	282·0	26th	295·9	*295·7*	+1·0	13	+ 2
1265	ϕAdelaide	34 56	138 35	42·7	1005·5	1010·4	— 2·6	301·3	314·9	23rd	288·9	283·3	18th	295·1	*294·5*	—1·2	18	c
1266	ϕMelbourne	37 49	144 58	35·1	1004·4	1008·5	— 4·3	298·4	311·2	14th	286·4	282·5	30th	292·4	*292·0*	—0·3	25	— 23
1267	Bourke	30 13	145 58	110	997·7	1010·1	— 2·2	310·8	316·9	15th, 24th	293·2	286·3	27th	302·0	..	—0·4	5	— 33
1267a	ϕSydney	33 51	151 13	42·1	1003·4	1008·3	— 4·0	299·6	312·3	15th	290·8	288·0	27th	295·2	*294·8*	+0·2	46	— 47
1268	ϕLord Howe Island	31 20	159 0	4·6	1009·9	1010·5	— 2·4	299·2	301·4	18th	291·3	286·2	2nd	295·2	..	—0·4	90	— 37
1271	Auckland	36 50	174 50	38·1	..	1008·4	— 4·4	295·3	298·3	30th	288·1	284·4	3rd	291·7	..	—0·5	164	+ 97
1272	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..

JANUARY—ZONE 13.

Between Latitude 40° S. and 50° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1008·3	..	..	..	..	..	..	..	..	..	..	90	+ 32
1321	Isla Guafo	43 34	74 45	140	999·1	1015·9	— 0·1	288·5	291·6	15th	283·6	281·7	19th	286·1	*285·6*	—0·1	61	— 3
1322	Punta Galera	40 1	73 44	40	1010·8	1015·6	— 0·7	288·8	292·8	25th	283·5	281·0	27th	286·1	*286·7*	—0·7	23	— 41
1323	Sarmiento	45 30	69 0	274	977·0	1007·2	— 1·2	298·7	308·8	12th	284·1	278·5	29th	291·4	291·6	+0·5	9	+ 5
1324	Puerto Madryn	42 49	W64 58	14	1006·6	1008·0	— 0·8	299·8	309·2	26th	287·2	280·4	11th	293·5	293·4	+0·4	36	+ 21
1365	Launceston	41 27	E147 10	10·1	1003·1	1004·2	— 7·4	295·6	305·2	4th	283·7	279·1	9th	289·6	*288·5*	—1·4	55	+ 9
1366	ϕHobart	42 53	147 20	53·9	996·9	1003·5	— 6·6	293·1	301·9	14th	284·4	280·4	22nd	288·7	*287·6*	—1·0	57	+ 11
1370	Invercargill	46 25	168 21	3·7	..	..	..	293·9	300·8	1st	283·4	276·3	15th	288·7	..	+1·7	80	— 21
1371	Dunedin	45 52	170 31	91·4	..	1009·5	— 0·4	291·0	296·3	30th	284·6	279·1	5th	287·8	..	+0·4	75	— 12
1371a	Christchurch	43 31	172 39	7·6	..	1008·2	— 3·1	292·6	299·7	31st	285·6	280·1	15th	289·1	..	—0·2	139	+ 83
1372	Wellington	41 16 S.	174 46 E.	3·0	..	1009·1	— 3·5	294·6	298·1	22nd	287·1	281·7	11th	290·8	..	+0·9	147	+ 62
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
** Height changed from 10m. to 345m. from January 1st. ϕ Change of normals, *see* pages 113 and 114.

JANUARY—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	999·0	1005·7	+ 3·4	283·0	285·0	sev. dates	279·7	277·0	19th	281·3	*281·2*	−0·5	247	− 5
1422	Puerto de Punta Arenas	53 10	70 54	28	999·9	1003·3	+ 2·8	287·9	295·4	12th	281·0	277·0	19th	284·5	*284·8*	+0·6	37	− 15
1423	Punta Dungeness	52 24	68 26	5	1001·8	1002·4	+ 2·3	288·5	297·0	12th	281·6	277·5	19th	285·1	*284·7*	−0·1	12	− 6
1424	Santa Cruz	50 11	68 21	12	1003·9	1004·8	+ 0·4	294·5	307·0	12th	282·5	275·8	19th	288·5	288·2	+0·3	9	..
14244	‡Año Nuevo	54 39	64 8	50	..	..	..	286·3	290·1	14th	278·7	274·5	23rd	282·5	*281·9*	+0·7	77	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1002·2	..	287·4	293·6	6th	279·6	276·3	20th	283·5	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	1000·3	1002·9	+ 3·2	285·2	289·7	13th	279·3	275·8	11th	282·2	282·8	+0·1	..	..
1429	S. Georgia (Cumberland Bay)	54 14 S.	36 33 W.	4	997·0	997·5	+ 3·5	279·6	283·9	8th	273·1	270·2	19th	276·3	*276·6*	−1·4	125	+ 46

JANUARY—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys.	60 44 S.	44 39 W.	7	995·5	996·4	+ 5·7	275·0	278·0	21st	272·4	271·1	16th	273·7	273·5	+0·4	30	− 8
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—JANUARY 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
				9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	SE	7·4	SE 3	Calm 0	Calm 0	N 1	N 1	EbyS 4	Calm 0	..	E 3	E 2	E 2
2	SE	8·6	SE 3	NNE 2	WSW 1	E 1	E 1	ENE 3	NNE 2	Calm 0	E 3	E 1	S 2
3	SSE	6·1	SE 3	Calm 0	SW 1	NE 1	W 2	NNE 2	Calm 0	NW 2	E 3	E 3	SSE 2
4	SSE	5·7	ESE 3	NE 1	SSW 1	S 1	Calm 0	ENE 5	ENE 4	NW 2	E 4	Calm 0	S 2
5	SE	6·6	SE 3	Calm 0	WSW 1	SW 1	N 2	E 4	E 4	NW 2	Calm 0	Calm 0	SE 2
6	SSE	7·9	SE 3	ENE 1	Calm 0	NE 1	Calm 0	EbyN4	EbyN4	NW 4	E 2	E 2	NW 2
7	SSE	7·7	SE 4	ENE 2	SSW 2	N 1	Calm 0	E 5	EbyN3	..	E 2	E 2	SE 2
8	SE	7·0	SE 3	ENE 1	WSW 1	NE 1	N 2	EbyN4	EbyN3	NW 4	E 5	E 4	Calm 0
9	SSE	6·7	E 3	ENE 1	Calm 0	SW 1	SW 2	EbyN5	EbyN3	Calm 0	E 4	E 4	N 2
10	SE	7·0	ESE 2	ENE 1	Calm 0	SW 1	S 2	E 5	E 3	Calm 0	E 2	E 5	NE 2
11	SE	6·6	ESE 3	E 2	Calm 0	S 1	S 1	E 5	E 4	NW 2	ESE 5	ESE 3	S 2
12	SE	6·7	SE 3	ENE 2	WSW 1	W 2	SW 2	E 5	EbyN5	Calm 0	ESE 3	ESE 4	NE 2
13	SE	5·0	SE 2	Calm 0	SW 1	NW 1	SE 1	EbyN6	E 3	Calm 0	ESE 4	ESE 4	NNE 2
14	SE	4·9	SE 2	SW 1	WSW 1	Calm 0	SW 1	E 4	E 3	..	ESE 4	ESE 4	NE 2
15	SE	4·3	SE 2	Calm 0	WSW 1	Calm 0	Calm 0	E 4	EbyN4	Calm 0	E 4	E 5	N 2
16	SE	4·2	ESE 2	ENE 2	SW 3	Calm 0	SW 2	EbyN5	EbyN4	Calm 0	SE 4	ESE 3	E 2
17	SE	3·7	SE 2	Calm 0	Calm 0	W 1	W 2	EbyN5	E 4	Calm 0	ESE 3	ESE 4	SSE 1
18	ESE	3·7	SE 3	ENE 2	ENE 1	NW 1	SE 2	EbyN5	EbyN4	Calm 0	ESE 3	ESE 4	Calm 0
19	ESE	3·9	ESE 2	SE 2	SE 3	N 1	Calm 0	E 5	EbyN5	Calm 0	ESE 3	ESE 3	S 2
20	SE	7·0	SE 3	Calm 0	Calm 0	SW 1	SW 2	E 5	E 4	Calm 0	ESE 3	ESE 3	SE 2
21	SE	4·1	SE 5	Calm 0	Calm 0	Calm 0	SE 2	E 5	E 4	..	E 3	E 3	N 2
22	ESE	4·6	ESE 2	Calm 0	SSW 1	SW 1	W 2	E 5	ENE 4	Calm 0	E 3	E 3	NE 2
23	SSE	9·7	ESE 2	ESE 1	NNW 1	E 1	Calm 0	ENE 5	ENE 3	Calm 0	E	ENE 5	NW 2
24	SE	8·0	ESE 4	Calm 0	SW 2	NE 1	W 1	ENE 5	ENE 3	NW 2	ESE 3	ESE 2	NW 1
25	SE	5·9	SE 3	Calm 0	SW 2	SE 1	W 2	ENE 4	ENE 3	NW 2	ENE 5	ESE 5	NW 1
26	SE	4·5	SE 3	E 1	WSW 1	NE 1	SE 1	ENE 4	EbyN3	NW 4	E 2	E 4	N 2
27	SE	3·7	SE 4	Calm 0	SW 2	NE 2	Calm 0	ENE 5	EbyN4	NW 2	ENE 4	SE 3	NE 2
28	SE	3·9	SE 4	SW 2	SW 2	SE 1	SE 2	EbyN5	ENE 2	..	SE 6	SSE 2	NNE 2
29	SE	3·7	SE 3	ESE 2	SW 3	NW 1	NE 1	ENE 5	NE 4	Calm 0	SW 3	W 1	NNE 2
30	SE	4·3	SE 3	E 3	Calm 0	NW 1	E 1	NE 4	NE 3	NW 2	Calm 0	SW 6	N 2
31	SE	4·1	ESE 2	Calm 0	Calm 0	NE 1	Calm 0	NE 4	NE 2	NW 2	SW 4	W 1	..
Mean	..	5·7	2·9	0·9	1·0	0·9	1·2	4·5	3·3	1·2	3·2	3·1	..
§Resultant	140° (95)	..	130° (95)	175° (14)		235° (4)		80° (90)		315° (46)	105° (73)		40° (85)
§Normal	142° (92)	7·3	‖105° (75)	22° (0)		265° (35)		‖‖71° (78)		322° (14)	‖88° (27)		89° (85)

‖ Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—JANUARY 1923.

‡‡*Barents Sea.*—Excepting for a few days there was ice everywhere round Bear Island during the first half of the month. From the 15th to 24th the sea was open, but from the 25th until the end of the month there was ice everywhere.

‡‡*Spitsbergen.*—By the middle of the month there was firm ice in most of the fjords. On the 28th some brash was observed along the Foreland although no ice was visible in the offing. On the north coast Wijde Bay froze over in the middle of the month, but outside the bay the sea was open.

‡‡*Iceland.*—After a westerly gale lasting several days close polar ice was driven into the fjords on the west coast on the 27th. It is unusual to find ice so far south. On the 28th old polar ice was driven in near Cape North by northerly winds. On the 30th, after an easterly gale, no ice was seen in the west fjords. Grimsby was free of ice throughout the month as also were the other coasts of Iceland. The normal duration of average ice condition is 3 days visible and 1 day heavy.

‡‡*Denmark Strait.*—At Angmagsalik a broad belt of " Storis " was lying along the land while no ice was visible in the offing. From the 16th no ice was visible, which is very uncommon.

‡‡*N. Atlantic and Labrador.*—No icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being three. To the north of the 48th parallel there were vast icefields and many icebergs, the eastmost occurring in 45°W. The Gulf of St. Lawrence was full of ice and in Belle Isle Strait there was closely packed ice everywhere.

‡‡*Davis Strait.*—At Cape Farewell the sea was free of ice, but from the 26th Arsuk Fjord was frozen over, and there was ice in the Vajgat. West ice was observed at Godhavn and Holstensborg about the beginning of the month, but it soon drifted away again from both places. The ice was lying unbroken in Frozen Channel, but Hurd Channel was usually open.

‡‡ *Isforholdene i de arktiske Have, 1923*, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, FEBRUARY 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF FEBRUARY 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **FEBRUARY—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	1027·4	..	252·6	272·4	9th	242·0	228·6	25th	247·3	..	−0·6	..	..
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124	Upernivik	72 47	56 7	19·2	1003·6	1006·2	− 2·6	254·7	274·1	12th	247·2	239·2	1st	250·9	*251·4*	+1·3	3	− 10
125	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133	Jan Mayen	70 59	W 8 18	23·1	1001·7	1004·6	..	..	275·2	8th	268·5	260·5	23rd	..	*270·0*	..	62	..
135	¤Spitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1006·6	1008·1	+ 1·7	..	277·1	10th	257·0	244·0	2nd	..	258·7	+4·8	26	− 8
140	Björnöen	74 28	19 15	40·5	1002·5	1007·7	..	..	276·4	9th	262·0	250·0	2nd	..	*266·0*	..	32	..
141	Gjesvaer	71 6	25 22	6·5	1008·3	1009·1	+ 6·3	..	279·2	9th	268·2	261·2	5th	..	*270·8*	+2·1	74	+ 14
142	Mehavn	71 1	27 47	4·6	1008·4	1009·5	+ 6·9	..	276·5	7th	266·5	258·3	5th	..	*269·4*	+1·9	91	+ 31
143	Vardö	70 22	31 8	6·8	1009·6	1010·5	+ 4·5	..	274·4	7th	265·5	259·4	13th	..	*268·4*	+1·3	38	− 33
147	Malye Karmakouly	72 23	52 43	14·8	1007·4	1009·3	+ 1·0	268·6	274·5	8th	261·1	254·0	4th	264·8	*265·0*	+8·1	87	+ 81
148	Waigatz	70 24	58 47	11·2	1009·5	1011·0	+ 0·7	264·6	272·5	9th	257·2	251·0	14th	260·9	*261·1*	..	1	..
153	Dickson	73 30 N.	80 23 E.	13	1011·6	1013·4	..	253·4	270·5	8th	245·8	235·9	12th	249·6	..	..	4	..

Between Latitude 70° N. and 60° N. **FEBRUARY—ZONE 2.**

203	Nome	64 30	165 24	6·7	..	1020·3	+ 8·1	266·5	276·3	12th	258·1	244·7	27th, 28th	262·3	*261·8*	+4·0	7	− 17
204	Candle	65 55	161 57	2·4	..	..	..	260·4	276·3	9th, 10th	250·2	234·1	25th	255·3	..	+3·0	5	..
205	Tanana	65 10	152 6	67·1	..	1021·0	+ 3·1	261·3	274·7	7th	254·4	243·6	22nd, 24th	257·9	..	+5·4	23	+ 4
206	Rampart	65 30	150 15	122	..	..	..	259·4	277·4	7th	252·8	248·4	14th, 21st	256·1	..	+5·0	32	+ 14
207	Valdez	61 7	146 16	8·2	..	1015·2	+ 5·2	273·7	288·0	11th	264·9	254·7	28th	269·3	..	+2·2	136	+ 19
208	¤Eagle	64 46	141 12	254	..	1023·7	+ 6·2	260·7	273·6	5th	252·3	234·1	15th	256·5	..	+3·7	22	+ 13
209	¤Dawson	64 4	139 29	324	982·4	1026·2	+ 5·6	256·3	269·1	11th	249·1	230·2	15th	252·7	..	+3·8	42	+ 24
210	Carcross	60 11	134 34	662	..	..	..	266·1	277·4	3, 6, 27	258·9	234·1	13th	262·5	..	+5·2	157	+135
211	Fort Good Hope	66 25	128 53	65·2	1020·4	1029·7	..	251·6	275·2	6th, 7th	240·3	226·3	1st	245·9	..	..	29	+ 16
212	Fort Simpson	61 52	121 35	129	1008·2	1026·0	+ 5·2	257·4	280·2	7th	245·7	231·3	2nd	251·6	..	+5·5	63	+ 46
213	Hay River	60 51	115 20	161	1002·5	1024·8	+ 3·7	255·3	280·2	28th	243·9	225·8	2nd	249·6	..	+0·7	15	+ 2
216	Jacobshavn	69 13	51 2	12·6	999·8	1001·4	− 5·0	263·0	278·1	12th	255·1	240·9	8th	259·1	*258·9*	+5·1	1	− 6
217	Godthaab	64 11	51 43	20·4	989·5	992·1	− 9·0	271·2	281·2	12th	264·7	257·6	2nd	267·9	*268·4*	+5·5	1	− 45
219	Ivigtut	61 12	48 10	13·0	987·8	989·5	−11·2	276·2	281·7	15th	267·0	259·2	7th	271·6	*270·7*	+5·1	1	− 68
221	Angmagsalik	65 37	37 33	31·7	994·3	998·3	− 5·2	270·0	279·2	11th	263·9	..	6th	266·9	*267·1*	+4·8	25	− 25
232	Stykkisholm	65 5	22 46	25	988·6	991·7	− 9·1	275·8	280·0	11th	271·8	251·1 266·2	6th	273·8	*273·5*	+3·2	22	− 43
233	Vestmanno	63 24	20 17	132	971·1	987·1	−12·8	278·2	281·1	11th	275·2	269·1	6th	276·7	*276·4*	+2·8	124	+ 1
234	Grimsey	66 33	18 1	22·0	992·2	994·9	− 7·7	274·9	278·3	14th	271·9	266·1	6th	273·4	*273·1*	+3·0	..	..
235	Teigarhorn (Berufjord)	64 41	14 22	18·0	991·9	994·1	− 8·1	276·6	278·4	11th	273·3	267·7	6th	274·9	*274·9*	+3·1	220	+120
236	¤Thorshavn	62 3	6 45	26·3	993·8	997·0	− 8·4	279·0	282·2	5th	275·8	273·7	20th	277·4	*277·6*	+1·5	75	− 59
237	Lerwick	60 9	W 1 11	46·9	..	1002·8	− 4·5	277·9	283·0	1st	274·8	271·9	23rd	276·4	*276·7*	−0·1	114	+ 34
238	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1002·8	1008·4	− 2·9	276·0	283·0	9th	271·3	265·5	21st	273·7	*273·7*	−0·5	89	− 44
239	Aalesund	62 28	6 10	6·3	1007·2	1008·0	− 1·2	..	284·8	6th	272·1	267·4	24th	..	*274·3*	−0·8	30	− 62
240	Trondhjem	63 26	10 25	39·5	1006·6	1011·7	+ 1·9	271·6	281·9	6th	265·6	259·0	17th	268·6	*269·0*	−1·7	13	− 54
241	Bodö	67 17	14 24	22·3	1008·9	1011·7	+ 6·1	..	279·0	6th	266·9	260·0	27th	..	*270·2*	−0·4	44	− 25
242	Haparanda	65 50	24 9	9·2	1016·6	1017·8	+ 8·8	262·9	273·0	6th	255·9	243·8	1st	259·4	*259·9*	−1·4	17	− 11
242a	¤Helsingfors	60 10	24 57	11·7	1018·0	1019·5	+ 6·9	264·3	273·3	7th	258·2	251·8	21st	261·3	*261·4*	−4·9	18	− 19
243	Kuopio	62 54	27 40	90·3	1008·2	1020·3	+ 6·8	260·9	271·5	7th	253·2	242·5	14th	257·1	*257·5*	−5·8	12	− 23
244	Kola	68 53	33 1	6·7	1013·6	1014·5	+ 6·8	264·0	274·2	7th	256·8	244·4	5th	260·4	*260·9*	−0·5	5	− 11
245	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
246	Arkhangelsk	64 34	40 31	6·3	1019·0	1019·8	+ 8·9	262·7	270·0	10th	257·2	249·6	21st	260·0	*259·9*	−0·4	8	− 10
247	¤Mezen	65 50	44 16	14·9	1016·3	1018·2	+ 7·3	262·3	268·3	8th	256·9	245·2	21st	259·6	*259·8*	+0·6	5	− 4
248	Oust-Tsylma	65 25	52 18	? 68	..	..	..	261·5	270·8	13th	255·2	244·5	5th	258·4	*258·5*	+1·1	8	− 8
249	¤Tcherdyn	60 24	56 31	?177	997·8	1021·4	+ 3·5	261·4	270·1	13th	255·4	247·9	9th	258·4	*258·3*	−0·8	26	0
250	Berezov	63 56	65 4	39·5	1015·4	1020·8	+ 4·6	260·0	270·6	12th	249·9	239·6	7th	255·0	*255·4*	+1·3	12	0
251	Obdorsk	66 31	66 35	23·7	1015·0	1018·2	+ 3·2	257·2	269·1	11th	246·4	237·1	12th	251·8	*251·5*	+1·0	14	+ 6
252	¤Sourgout	61 15	73 24	? 40	1016·6	1022·1	+ 3·3	..	267·9	3rd	246·3	223·1	14th	..	*252·7*	−0·5	16	+ 4
254	Doudinka	69 23	86 4	20·0	1020·4	1023·2	+ 8·7	..	266·0	4th	246·2	229·3	13th	..	*249·3*	+1·9	2	− 4
255	Touroukhansk	65 47	87 57	45·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
270	Viliouisk	63 45	121 35	120	..	..	..	..	258·5	1st	237·1	223·8	21st	..	*241·9*	−0·1	0	− 8
271	Iakoutsk	62 1	129 43	108	1016·3	1031·9	+ 5·2	..	251·6	25th	233·5	223·5	21st	..	*238·9*	+1·4	1	− 4
272	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ¤ Change of normals *see* pages 105 and 106.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1011·8	+ 7·4	272·1	278·0	6th, 13th	268·2	255·8	27th	270·1	..	+2·7	15	− 31
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1010·8	+ 7·9	274·9	281·9	12th	270·4	261·9	25, 26, 27	272·7	*272·8*	−0·1	198	+ 133
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	269·4	276·3	11th	264·6	251·3	28th	267·0	..	+3·7	49	− 15
306	Kodiak (Radio)	57 46	152 22	6·1	..	1011·2	+ 5·5	276·8	287·4	11th	270·9	261·9	28th	273·8	*273·8*	+1·6	‡108	..
307	55°—50° N. 150°—145° W.	††51 39	††147 17	§(15)	..	1013·9	+ 8·1	..	..	Sea Temp. 278·0|+0·6	..	..	..	..	277·4	+1·1	..	..
309	Sitka	57 3	135 19	27·4	..	1018·6	+ 7·8	278·3	283·0	4th, 9th	271·8	260·8	13th	275·0	*274·8*	+0·8	338	+ 172
310	Prince Rupert	54 18	130 18	51·8	1016·1	1022·6	+11·5	278·6	285·2	21st	271·9	258·0	14th	275·2	*275·3*	+0·1	476	+ 260
311	Barkerville	53 2	121 35	1274	871·7	1024·6	+ 7·4	270·8	279·1	17, 22, 27	261·3	236·3	13th	266·1	*265·9*	+0·5	72	− 6
312	Kamloops	50 41	120 29	385	982·9	1032·1	+ 9·7	272·6	282·7	28th	263·7	247·7	13th	268·2	*268·4*	−1·0	11	− 57
313	Calgary	51 2	114 2	1045	897·4	1025·5	+ 6·0	272·4	290·2	28th	258·0	233·6	14th	265·2	*264·7*	+1·4	15	− 41
314	Fort Chipewyan	58 42	111 10	218	995·8	1025·5	+ 4·8	258·6	276·9	7th, 28th	245·2	229·1	12th	251·9	*252·4*	+0·8	5	− 14
315	Prince Albert	53 10	105 38	442	967·8	1026·3	+ 4·9	263·6	281·3	28th	249·7	232·4	3rd	256·6	*256·2*	+1·0	20	− 14
316	Qu'Appelle	50 30	103 47	045	941·5	1025·6	+ 3·8	262·4	279·7	28th	250·2	235·2	3rd	256·3	*255·9*	−0·1	20	− 8
317	Minnedosa	50 15	99 50	515	956·2	1024·3	+ 1·9	260·3	274·1	28th	248·3	234·5	3rd	254·3	*254·2*	−1·0	20	− 10
318	Berens River	52 18	97 23	216	..	..	..	258·0	271·9	26th, 27th	244·7	232·4	5th	251·3	..	−1·5	..	..
318a	ϕPort Nelson	57 0	92 51	14·9	1015·9	1017·9	− 0·1	251·4	264·7	27th	240·8	230·2	2nd	246·1	..	−2·0	1	− 20
319	Fort Hope	51 33	87 49	‡260	984·9	1020·0	+ 1·8	258·0	274·1	27th	246·9	233·0	3rd	252·4	*252·4*	−1·0	17	− 16
320	ϕMoose Factory	51 14	80 30	9·1	1016·4	1017·7	+ 0·7	259·3	271·3	28th	244·9	232·4	3rd	252·1	..	−1·8	17	− 16
321	Fort George	53 50	79 5	97·5	..	..	..	253·7	266·9	8th	242·5	233·0	9th	248·1	*248·5*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	259·0	267·4	9th	242·3	228·6	4th	250·7	..	−3·8	23	− 23
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	261·3	269·7	10th	249·4	238·0	6th	255·4	..	−3·3	13	− 40
326	ϕBelle Isle	51 53	55 23	130	983·5	..	..	260·4	268·0	9th	254·6	239·7	5th	257·5	*257·7*	−3·2	7	− 45
331	55°—50° N. 30°—25° W.	††52 53	††27 31	§(30-39)	..	975·4	..	..	..	Sea Temp. 280·5|−1·8	..	..	..	..	278·8	..	..	..
333	53°—48° N. 20°—15° W.	††50 2	††17 34	§(47-48)	..	988·5	..	..	..	284·1|+0·1	..	..	..	..	282·4	..	..	..
333a	62°—57° N. 20°—15° W.	††57 29	††17 12	§ (7)	..	..	..	..	..	280·8|−0·5	..	..	..	..	279·4	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	995·6	−17·1	282·8	285·8	1st	278·6	273·6	20th	280·7	281·0	+1·2	275	+ 78
335	Aberdeen	57 10	W 2 6	26·8	..	999·8	−10·5	278·8	285·8	1st	276·1	273·0	20th	277·5	277·6	+1·0	129	+ 7
336	ϕGreenwich	51 28	0 0	46·3	..	1002·9	−13·0	282·2	286·9	26th	276·4	269·7	5th	279·3	279·2	+1·9	67	− 45
337	Uccle	50 48	E 4 22	100	994·0	1006·2	−10·4	281·4	285·1	8th	275·8	268·3	18th	278·6	278·2	+2·5	95	+ 44
338	De Bilt	52 6	5 11	3·0	1005·6	1006·0	−10·2	278·7	285·4	4th	273·1	263·0	18th	275·9	276·0	+0·5	54	+ 2
338a	Hamburg	53 33	9 58	40·3	1004·7	1009·8	− 5·2	275·2	283·7	2nd	271·6	265·2	13th	273·4	*273·3*	−0·8	57	+ 15
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1010·4	1011·0	− 2·7	274·3	282·9	2nd	270·3	263·3	19th	272·3	*272·9*	−0·4	39	+ 11
340	Potsdam	52 23	13 4	84·9	999·9	1010·6	− 5·5	275·6	285·1	2nd	270·0	261·8	17th	272·8	272·6	−0·7	25	− 2
340a	Uppsala	59 51	17 38	24	1013·4	1016·5	+ 4·1	269·1	274·0	6th	262·4	250·1	23rd	265·7	265·9	−2·3	12	− 15
341	Warsaw	52 13	21 3	89·9	1002·2	1013·6	− 4·4	272·4	280·6	4th	267·1	255·9	21st	269·7	270·0	..	26	− 2
342	Tartu (Ülikooli)	58 23	26 43	74·5	1009·4	1019·3	+ 5·2	265·0	272·8	3rd	257·8	252·2	23rd	261·4	261·1	−5·3	7	− 37
343	Petrograd	59 56	30 16	4·8	1020·0	1020·6	+ 6·5	262·4	270·1	8th	257·3	251·6	23rd	259·8	*259·6*	−5·4	15	− 36
344	Kiiv	50 27	30 30	183	994·3	1017·9	− 1·1	267·4	275·0	4th	261·5	255·3	14th	264·4	*264·6*	−3·7	56	+ 2
344a	Moscow	55 50	37 33	167	1000·6	1022·8	+ 4·2	262·8	274·6	28th	256·2	249·9	8th	259·5	*259·4*	−4·5	11	− 30
345	Saratov	51 33	45 57	122	1006·7	1023·0	+ 1·0	263·0	272·8	21st	255·6	247·8	3rd	259·3	*259·4*	−2·6	30	− 24
346	Kazan	55 47	49 8	79·9	1014·3	1025·1	+ 4·0	261·7	267·9	25th, 26th	254·2	245·7	11th	258·0	*257·6*	−3·9	24	− 10
347	Orenburg	51 45	55 6	109	1010·7	1025·4	+ 0·2	..	273·5	28th	252·7	241·6	5th	..	*257·1*	−1·9	10	− 22
348	Perm	58 1	56 16	163	1002·2	1024·0	+ 3·4	261·6	269·1	26th	254·8	243·8	7th	258·2	*258·1*	−1·6	22	− 14
349	Sverdlovsk	56 50	60 38	281	985·5	1022·5	+ 1·2	263·8	270·0	27th	255·1	245·8	9th	259·4	*259·3*	−0·6	18	− 14
350	Tobolsk	58 12	68 14	108	1008·8	1023·4	+ 1·8	260·1	270·9	3rd	250·9	238·0	13th	255·5	*255·6*	−1·4	13	− 14
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	..	271·2	3rd	248·5	234·1	14th	..	*253·9*	−2·5	4	− 8
352	Omsk	55 1	73 19	108	1011·5	1026·4	+ 1·7	258·2	269·0	4th	247·6	230·4	14th	252·9	*252·2*	−3·1	6	− 14
353	Barnaoul	53 20	83 48	162	1006·8	1029·0	− 0·9	259·0	269·7	25th	245·5	232·2	16th	252·2	*252·4*	−4·2	22	− 17
354	Tomsk	56 30	84 58	122	1010·6	1027·4	+ 0·5	..	269·6	25th	246·4	225·4	16th	..	*252·2*	−4·2	14	− 20
355	ϕMinousinsk	53 43	91 41	248	997·5	1032·0	+ 1·4	..	266·6	7th	243·8	232·2	17th	..	*249·8*	−5·2	5	− 27
356	Eniseisk	58 27	92 10	77·6	1018·8	1029·6	+ 3·6	..	269·0	25th	241·9	221·8	17th	..	*249·3*	−5·5	7	− 27
357	Irkutsk	52 16	104 19	467	971·0	1034·4	+ 2·7	259·2	268·0	5th	244·3	237·0	18th	251·8	251·5	−3·2	4	− 27
358	Kirensk	57 47	108 7	263	999·2	1036·8	+ 6·9	..	265·5	1st	237·2	227·5	22nd, 23rd	..	*243·2*	−7·5	3	− 27
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	975·5	1026·2	+ 2·5	261·2	269·0	6th	248·0	238·7	13th	254·6	*254·4*	+3·0	2	− 38
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	1003·8	1023·0	+ 0·1	260·3	266·8	26th	249·9	242·7	13th	255·1	*254·9*	0·0	6	− 41
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	995·2	1006·4	+ 1·5	267·5	273·0	20, 21, 22	262·5	255·0	1st	265·0	*264·8*	+2·8	39	− 17
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1016·2	1025·0	+ 8·4	278·7	283·6	27th	273·5	261·4	13th	276·1	275·9	−1·6	104	+ 21
412	Portland, Oregon	45 32	122 41	46·6	1019·8	1025·4	+ 6·9	279·2	289·7	28th	272·8	263·0	14th	276·0	*275·8*	−2·3	46	− 94
413	Macleod	49 44	113 24	953	..	..	..	278·8	286·9	28th	259·0	233·0	14th	264·9	*264·9*	−0·8	18	0
414	Helena	46 34	112 4	1253	878·1	1027·4	+ 5·5	270·2	284·7	28th	260·2	242·4	13th	265·2	*265·3*	−2·6	12	− 4
414a	Salt Lake City	40 46	111 54	1329	872·0	1024·7	+ 3·8	273·7	279·7	24th	266·3	257·4	3rd	270·0	*270·3*	−3·6	9	− 28
415	Cheyenne	41 8	104 48	1856	812·8	1023·3	+ 3·5	275·2	286·9	18th	261·8	251·9	3rd	268·5	*268·5*	−1·4	14	0
416	North/Platte	41 8	100 45	860	922·1	1025·7	+ 4·8	278·1	289·1	23rd	261·4	251·3	14th	269·8	*269·0*	+0·2	4	− 9
416a	Bismarck	46 47	100 38	510	961·7	1026·4	+ 4·5	265·0	280·2	28th	253·4	239·7	4th	259·2	*259·5*	−1·1	12	0
417	Winnipeg	49 53	97 7	232	992·5	1023·6	+ 1·9	260·8	276·3	25th	250·2	236·9	3rd	255·5	*255·1*	+0·2	26	+ 7
418	Duluth	46 47	92 6	345	977·6	1021·7	+ 3·0	263·7	275·8	26th	252·7	236·9	3rd	258·2	*258·0*	−2·6	23	− 3
419	Port Arthur	48 27	89 12	196	994·9	1021·0	+ 1·8	262·6	274·1	28th	252·6	238·6	3rd	257·6	*257·7*	−1·6	7	− 11
420	Chicago	41 53	87 37	251	991·3	1022·7	+ 3·4	271·4	279·7	26th	263·8	250·8	4th	267·6	*268·3*	−2·6	27	− 26
421	Toronto	43 40	79 24	116	1005·4	1020·5	+ 2·5	269·6	278·7	26th	261·2	252·4	4th	265·4	265·4	−1·5	29	− 31
422	ϕNew York (Central Park)	40 47	73 58	47·4	1014·0	1020·1	+ 2·3	273·1	279·7	3rd, 9th	266·4	259·1	18th	269·8	269·8	−2·4	64	− 27
423	St. John, N.B.	45 17	66 4	36·2	1010·7	1015·5	+ 1·6	266·0	274·4	9th	256·9	248·6	17th	261·5	261·7	−4·8	52	− 47
424	S.W. Point, Anticosti	49 24	63 33	9·1	1009·3	1010·5	− 0·3	263·3	270·8	8th, 9th	256·0	246·9	4th	259·7	*259·8*	−2·6	11	− 35
424a	Sable Island (Main Station)	43 57	60 6	7·6	1011·8	1012·8	+ 0·5	269·7	277·4	3rd, 4th	264·1	260·2	6th	266·9	*266·9*	−4·1	68	− 49
425																		
426	Port aux Basques	47 35	59 10	9·1	1009·0	1010·2	− 0·6	262·6	271·9	9th	256·4	249·7	5th	259·5	259·5	−5·3	67	− 22
	St. John's, Newfoundland	47 34	52 42	48·8	999·0	1005·4	− 3·4	265·8	273·0	9th	258·6	249·7	5th	262·2	*262·1*	−5·5	33	− 93
430	50°—45° N. 35°—30° W.	††47 57	††32 27	§(42)	..	991·7	..	..	..	Sea Temp. 283·9|−1·0	..	..	..	..	280·1	..	..	..
435	Madrid	40 24	3 41	667	939·5	1018·7	− 1·7	284·1	288·0	3rd	275·5	270·6	6th	279·8	*279·4*	+0·8	23	− 14
436	Nantes	47 15	W 1 34	36·5	1003·5	1008·2	− 9·9	284·7	287·0	15th, 26th	278·6	272·1	5th	281·7	281·3	+2·9	106	+ 48
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1001·9	1008·4	− 9·5	282·5	287·0	26th	276·5	271·2	6th	279·5	279·3	+2·2	64	+ 31
438	Marseille	43 18	5 23	75	..	1010·1	− 6·5	287·0	290·9	2nd	277·8	273·2	21st	282·4	*281·7*	+0·8	66	+ 29
438a	Zürich	47 23	8 33	493	952·5	1011·9	− 8·3	279·9	283·3	24th	274·1	271·1	21st	277·0	276·6	+2·8	80	+ 25
439	Rome	41 54	12 27	45·5	1003·6	1008·8	− 7·5	285·8	288·2	26th	278·3	273·9	8th	282·1	*281·8*	+0·5	151	+ 83
440	Vienna	48 15	16 22	203	987·2	1012·4	− 6·5	276·0	283·3	3rd	271·5	265·5	21st	273·7	273·7	+0·2	34	+ 1
440a	Budapest	47 31	19 2	130	995·8	1012·1	− 7·1	276·9	285·8	4th	272·5	263·9	21st	274·7	274·6	+1·6	67	+ 37
442	ϕSofia	42 42	23 20	550	946·4	1013·0	− 7·5	278·0	286·2	4th	271·8	264·8	15th, 17th	274·9	*274·8*	+1·5	59	+ 28
	Bucharest	44 25	26 6	82	1003·9	1014·3	− 5·5	274·0	282·9	4th	268·6	262·3	16th	271·3	271·1	−1·1	54	+ 26
443	Odessa (Observatory)	46 26	30 46	42·8	1009·4	1015·0	− 4·7	272·1	278·2	3rd	267·1	260·6	11th	269·6	*269·6*	−1·7	41	+ 20
444a	Kharkiv (University)	50 0	36 14	140	1000·8	1019·0	− 1·7	267·2	273·9	27th, 28th	261·2	252·1	22nd	264·2	*264·3*	−2·9	28	+ 2
445	Novorossiisk	44 44	37 49	37·1	1009·0	1013·6	− 4·6	279·2	289·3	28th	272·1	262·1	3rd	275·6	*275·8*	−0·2	169	+104
446	ϕTiflis	41 43	44 48	404	967·5	1016·4	− 5·2	282·0	291·2	28th	272·4	264·3	4th	277·2	*276·8*	+1·3	22	+ 3
447	Astrakhan	46 21	48 2	− 20	1021·9	1019·4	− 3·5	271·4	279·5	28th	263·2	252·2	13th	267·3	*267·7*	−0·2	7	− 2
448	Fort Alexandrovsk	44 31	50 7	− 23·0	1021·4	1018·5	− 3·6	273·8	284·4	27th	268·1	259·5	15th	271·0	*270·9*	+0·5	5	− 2
	ϕKrasnovodsk	40 0	52 59	− 4·6	1016·8	1016·2	− 4·7	281·9	289·5	28th	275·8	270·0	14th	278·8	*278·3*	+1·2	3	− 11
449	Kasalinsk	45 46	62 7	66·7	1014·8	1023·7	− 1·0	..	..	..	255·3	243·0	15th	..	*260·3*	−2·0	6	− 2
451	Tashkent	41 20	69 18	478	961·6	1020·1	− 4·4	280·2	290·7	27th	271·5	263·8	17th	275·8	*275·1*	+0·8	72	+ 38
452	Narynskoe	41 26	76 2	‡2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Alma Ata	43 16	76 53	841	919·8	1022·9	− 4·5	273·6	284·3	27th	263·4	255·2	15th	268·5	*268·0*	+1·9	36	+ 8
461	ϕMoukden	41 48	123 23	43·8	1019·3	1025·1	− 0·6	270·8	280·7	17th	258·0	251·5	27th	264·4	264·0	+1·0	5	− 1
462	Joshin	40 40	129 11	31·9	1016·7	1020·8	+ 0·3	272·9	277·2	2nd	265·1	257·5	26th	269·0	268·8	+0·3	1	− 15
463	Yuki	42 20	130 24	65·6	1012·2	1020·7	+ 0·4	271·0	279·3	18th	263·3	257·8	24th	267·1	266·8	+0·1	3	− 8
464	Vladivostok	43 7	131 53	128	1003·9	1020·7	− 1·1	266·7	273·4	18th	259·2	253·0	25th	263·0	*263·1*	+0·1	2	− 7
465	Ochiai	47 20	142 47	27·4	1011·6	1015·2	+ 1·2	266·4	274·0	11th	252·7	241·6	4th	259·5	260·3	+0·7	31	− 3
466	Nemuro	43 20	145 35	26·7	1009·9	1013·4	+ 0·7	269·2	274·2	15th	260·4	253·5	4th	264·8	265·3	−2·2	7	− 18
466a	ϕYana	45 14	147 53	39·3	1006·8	1011·9	+ 0·5	267·6	275·1	12th	259·8	251·5	22nd	263·7	264·0	−2·0	35	− 21
		N.	E.															

Between Latitude 40° N. and 30° N.

308	35°—30° N. 145°—140° W.	††31 4	††141 54	§(21)	..	1021·0	− 1·7	..	..	Sea Temp. 290·2|+0·6	..	..	..	..	290·2	+1·7	..	..
311	San Francisco	37 48	122 20	47·2	1014·6	1020·3	+ 1·2	288·0	295·8	27th	280·4	276·3	2nd	284·2	*283·7*	+0·4	20	− 72
312	San Luis Obispo	35 18	120 39	61·3	1012·5	1020·0	+ 0·7	291·4	300·8	18th	277·5	270·8	10th	284·4	*283·5*	−0·3	35	− 64
313	San Diego	32 43	117 10	26·5	1015·2	1018·3	+ 0·6	290·4	299·1	18th	281·4	276·3	3rd	285·9	*285·4*	+0·2	39	8
314	Modena	37 48	113 54	1670	835·3	1023·0	+ 2·2	275·2	282·4	24th	259·7	246·9	10th	267·4	*267·6*	−5·2	24	− 2
315	Santa Fé	35 41	105 57	2138	786·4	1018·9	+ 1·7	279·6	287·4	15th	266·6	255·2	4th	273·1	*272·9*	0·0	6	− 16
316	Denver	39 45	105 0	1613	838·3	1022·7	+ 3·6	277·2	290·8	18th	264·6	250·8	3rd	270·9	*270·6*	−1·9	28	+ 15
317	Abilene	32 23	99 40	530	960·0	1023·0	+ 3·6	284·9	296·9	12th	275·1	264·7	4th	280·0	*279·4*	−1·1	68	+ 45
318	Saint Louis	38 38	90 12	173	1003·2	1024·7	+ 4·6	276·4	285·2	13th	267·8	255·8	4th	272·1	*272·0*	−1·8	38	− 27
319	Mobile	30 41	88 2	17·4	1020·7	1023·0	+ 3·0	289·4	299·1	13th	280·6	270·8	19th	285·0	*284·7*	+0·1	116	− 17
321	Nashville	36 10	86 47	166	1004·1	1024·7	+ 4·0	281·2	293·6	13th	272·0	261·9	18th	276·6	*276·7*	−1·3	111	+ 5
322	Charleston	32 47	79 56	14·6	1020·4	1022·0	+ 2·2	287·3	297·4	27th	279·0	270·8	19th	283·2	*283·3*	−0·3	26	− 58
323	Washington	38 54	77 3	34·1	1017·0	1021·3	+ 1·8	277·2	287·4	13th	269·4	261·3	18th	273·3	*273·3*	−1·2	56	− 25
330	Bermuda	32 17	64 46	46·0	1014·8	1020·3	+ 2·0	292·7	295·6	4th	285·9	279·9	16th, 17th	289·3	*289·3*	−0·7	82	− 36
331	Santa Cruz (Flores)	39 27	31 9	40	1009·1	1014·1	− 7·0	289·8	291·7	20th	283·0	273·7	14th	286·4	*286·5*	−0·2	239	+ 65
332	ϕHorta	38 32	28 38	65	1008·9	1016·7	− 4·5	289·3	291·8	17th	285·2	278·6	7th	287·3	287·1	−0·1	62	− 34
332a	Ponta Delgada	37 44	25 40	22	1015·7	1018·3	− 1·9	289·7	291·2	17th	286·0	282·8	9th	287·9	288·1	+0·9	..	..
333	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	..	..
334	Madeira (Funchal)	32 38	16 55	25	‡1022·0	‡1024·8	+ 4·0	291·3	294·0	19th	285·8	283·9	13th	288·5	*288·6*	+0·5	170	+ 46
335	Lisbon	38 43	9 9	95	1008·6	1020·2	+ 0·5	287·7	290·7	14th	282·8	278·5	1st	285·3	285·2	+1·0	35	− 56
335a	Melilla	35 17	2 59	40	1016·6	1021·5	+ 1·6	288·0	290·0	28th	278·0	276·8	7th	283·0	*284·9*	−1·8	70	− 19
336	Gibraltar	36 6	5 21	16·2	..	1021·7	+ 1·7	289·8	292·4	14th	282·8	279·7	20th	286·3	*286·2*	0·0	20	− 65
336a	Colomb-Béchar	31 36	2 4	769	931·8	1020·9	..	292·3	299·0	27th	277·8	272·9	2nd	285·1	*284·3*	..	56	− 51
		N.	W.														0	..
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and **108.**

FEBRUARY—ZONE 5 (Eastern Half). Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1011·3	1014·1	— 4·6	288·3	292·0	2nd	280·7	276·2	15th	284·5	..	+0·1	23	— 12
538	Algiers (Bouzaréah)	36 47	3 2	344	976·1	1017·1	— 1·4	286·7	291·5	8th	281·4	278·4	20th	284·1	*284·0*	+0·8	53	+ 14
539	ϕTunis	36 48	10 10	21	1010·1	1012·6	..	288·6	292·5	3rd, 24th	280·8	278·6	4th	284·7	*284·1*	+0·4	90	+ 45
539*a*	Malta	35 53	14 30	56·4	..	1012·7	— 3·3	287·6	289·7	19th, 24th	283·2	281·3	15th, 26th	284·5	*284·9*	−0·5	96	+ 50
540	Riposto	37 41	15 14	14·2	..	1012·1	— 5·0	287·4	289·0	20th	282·2	280·4	16th	284·8	*284·8*	+0·2	23	— 23
541	Athens	37 58	23 43	107	998·0	1010·9	— 6·2	287·4	292·7	3rd	280·7	273·6	1st	284·0	284·0	+1·9	26	— 4
542	ϕAlexandria	31 12	29 53	32·0	1011·8	1015·6	— 1·3	293·4	298·9	21st	284·0	281·6	2nd	288·7	*288·3*	+0·8	19	— 11
543	Nicosia (P.W.D.)	35 9	33 22	159	993·8	1012·7	— 3·2	289·0	292·4	24th	278·9	274·1	3rd	284·0	..	+0·9	52	+ 1
544	Beirut	33 54	35 28	33·7	..	1014·3	— 2·1	290·2	297·3	22nd	284·0	279·1	3rd	287·1	*286·9*	+0·3	152	+ 88
545	Hinaidi	33 17	44 29	32·3	..	1016·0	— 3·8	289·4	295·9	25th	279·2	272·9	6th	284·3	*283·5*	..	62	+ 25
546	Lenkoran	38 46	48 52	−20·0	1019·0	1016·6	— 4·8	..	284·7	21st, 24th	275·6	271·7	4th	..	*277·6*	+0·1	88	+ 52
547	Tehran	35 41	51 25	1220	..	..	..	281·7	288·0	26th	272·6	266·1	1st, 7th	277·1	*277·0*	−1·1	87	+ 51
548	Meshed	36 16	59 35	946	877·9	..	..	281·8	289·3	25th	271·2	264·1	8th	276·5	..	+0·7	93	+ 56
549	Seistan	31 0	61 30	610	..	..	..	289·6	296·1	27th	276·6	272·1	16th	283·1	..	..	24	+ 14
550	Quetta	30 11	67 3	1677	831·8	..	— 2.2	283·9	292·2	5th	273·1	269·1	9th	278·5	*278·4*	−0·1	43	+ 25
551	Peshawar	34 2	71 37	339	975·6	1016·2	— 2·8	289·9	296·3	6th	280·0	276·9	18th	284·9	*284·3*	−0·4	62	+ 35
551*a*	Lahore	31 34	74 20	214	988·9	1014·6	— 2·0	292·4	297·3	6th	281·9	278·7	18th	287·2	*286·8*	−0·2	39	+ 20
552	Simla	31 7	77 8	2204	779·1	..	— 1·3	280·5	288·6	6th	274·9	269·9	25th	277·7	*277·6*	−1·0	160	+ 80
552*a*	Leh	34 10	77 42	3503	662·0	..	— 1·6	270·8	277·5	10th	259·6	255·3	1st, 27th	265·2	*264·2*	−1·9	8	— 70
559	Hankow	30 35	114 17	37·0	1020·1	1024·7	— 1·0	280·9	290·0	28th	273·8	268·6	1st	277·3	*277·3*	−1·1	37	— 10
560	ϕTientsin	39 10	117 10	5·0	1025·5	1026·1	— 0·7	276·9	284·0	17th	266·4	260·5	25th	271·7	*271·3*	+0·2	0	— 47
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1023·3	— 1·7	280·7	286·6	3rd	272·7	266·5	1st	276·7	275·9	−1·2	91	+ 31
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1014·0	1022·7	— 0·3	274·0	282·0	14th	266·9	260·0	26th	270·5	270·0	−1·2	20	— 17
562*a*	Nagasaki	32 44	129 52	133	1002·0	1018·4	— 2·3	281·8	289·6	15th	275·0	269·0	28th	278·4	278·1	−0·8	51	— 5
563	Kyoto	35 1	135 44	42·9	1010·9	1016·3	— 2·4	282·4	287·4	18th	272·8	266·3	27th	277·6	276·7	+0·7	57	+ 1
564	Tokyo	35 41	139 46	5·8	1013·9	1014·6	— 1·5	280·6	285·6	15th	272·0	267·4	9th	276·3	276·0	−0·8	120	+ 64
565	Kanayama	37 53	140 46	24·6	1011·8	1014·9	— 0·9	277·6	282·4	3rd	268·3	257·4	18th	272·9	272·5	−1·5	122	+ 58
566	Miyako	39 38	141 59	30·4	1010·3	1014·2	— 0·7	278·3	286·3	11th	267·4	261·4	23rd	272·9	271·9	−0·8	152	+ 85

FEBRUARY—ZONE 6. Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		N.	W.															
601	Midway Island	28 15	177 22	5·8	..	1013·9	— 1·9	294·6	298·6	23rd	287·3	284·7	7th	291·0	*290·5*	..	101	..
605	Honolulu	21 19	157 52	11·6	1013·3	1014·7	— 2·7	297·1	298·6	..	291·1	288·6	..	294·1	*293·8*	−0·5	93	— 15
614	La Paz	24 10	110 20	12	1014·3	1015·7	..	297·2	304·8	20th	282·7	276·4	6th	289·9	..	..	0	— 11
615	Chihuahua	28 38	106 4	1423	860·0	1017·5	..	290·1	295·0	11th	277·6	263·0	5th	283·9	*284·0*	−1·4	11	— 11
616	ϕLeon	21 7	101 41	1809	824·1	1015·6	+ 2·3	297·2	300·9	10th	279·7	276·0	8th	288·5	*289·1*	+0·4	32	+ 10
616*a*	ϕMonterry	25 40	100 18	528	958·0	1019·8	+ 3·4	291.3	305·2	10th	281·9	276·0	5th, 6th	286·6	*286·1*	−3·1	139	+ 97
617	Tulancingo	20 5	98 22	2181	790·8	..	..	293·5	298·1	26th	279·7	276·2	7th	286·6	*285·7*	−0·5	41	— 1
618	Galveston	29 18	94 50	16·5	1020·2	1022·0	+ 3·1	289·2	297·4	13th	283·8	271·3	5th	286·5	*286·4*	+0·3	129	+ 87
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1022·7	+ 3·7	291·2	300·8	13th	282·6	274·1	6th	286·9	*286·5*	−0·1	59	+ 17
619	Merida, Yuc.	20 58	89 38	22	1015·1	1017·7	+ 0·4	301·0	304·8	26th	292·5	290·6	20th	296·7	*295·9*	+0·4	53	+ 31
620	Havana	23 8	82 21	24·3	..	1020·7	+ 2·4	300·4	304·2	6th	292·3	289·1	17th	296·3	*295·9*	+1·2	28	+ 6
620*a*	Key West	24 33	81 48	6·7	1020·2	1020·6	+ 2·3	298·2	301·3	6th	293·1	286·3	19th	295·7	*294·8*	+1·3	2	— 20
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1021·8	+ 3·2	296·3	..	..	..	..	..	..	‡*294·4*	−0·8	49	+ 25
622	Watling Island	24 6	74 26	33·5	1016·9	1020·8	+ 2·5	..	303	15th	..	295	11th, 18th	..	*297·8*	..	..	..
633	Izaña	28 19	16 30	2367	768·9	..	..	282·2	288·4	28th	274·3	266·5	1st	278·2	*278·0*	+2·0	3	— 65
634	La Laguna	28 28	W16 20	547	958·7	1023·1	+ 4·4	290·8	294·0	17th	280·9	275·8	3rd	285·8	*285·1*	+0·1	17	— 51
641	Siwa	29 12	E 25 29	−23	1019·4	1016·6	..	293·4	298·0	24th	278·0	274·0	21st	285·7	..	..	0	— 31
642																		
643	Cairo (Helwan)	29 52	31 20	116	1002·8	1016·6	— 0·3	293·5	300·8	21st	282·2	278·7	16th	287·9	*287·6*	+0·5	2	— 31
643*a*	Aswan	24 2	32 53	99·6	1004·6	1016·4	— 0·1	299·0	305·5	21st, 22nd	283·2	280·0	19th	291·1	*290·2*	+0·2	..	..
644	Tor	28 14	33 37	1·9	1015·4	1015·6	— 0·4	294·8	300·4	22nd	282·8	279·2	6th	288·8	*288·5*	+0·4	1	— 30
647	Bushire	28 59	50 53	4·3	1015·3	1015·9	— 1·3	291·5	297·9	27th	284·0	279·0	7th	287·7	*287·4*	−0·3	10	— 20
648	Jask	25 44	57 47	4·0	1014·2	1014·6	— 2·0	298·2	300·4	22nd	289·3	285·8	7th	293·7	*293·4*	+0·5	21	— 9
649	Karachi	24 53	66 57	4·0	1013·9	1014·3	— 2·0	297·7	301·9	1st	288·4	285·1	9th	293·1	*292·8*	−0·7	31	+ 3
650	Jacobabad	28 17	68 29	56·7	1008·1	1014·9	— 1·5	295·0	299·5	7th	282·7	278·7	9th	288·9	*288·5*	−1·3	21	— 7
651	Jaipur	26 56	75 52	436	964·4	1015·2	— 1·6	298·2	303·4	6th	283·9	279·2	11th	291·1	*290·5*	−0·4	13	— 15
652	Nagpur	21 8	79 5	310	978·2	1013·8	— 1·3	303·6	306·7	6th	287·9	285·1	11th	295·8	*295·6*	−0·5	15	— 13
653	Allahabad	25 25	81 51	94·2	1003·6	1014·3	— 1·0	296·3	302·5	9th	284·7	280·8	20th	292·0	*291·4*	+0·3	15	— 13
653*a*	Darjeeling	27 3	88 18	2265	774·5	..	— 1·0	282·1	286·2	11th	275·4	272·4	21st	278·8	*278·7*	+0·3	55	+ 27
654	Calcutta	22 36	88 23	6·4	1012·9	1013·7	— 1·2	299·9	304·1	10th	289·9	285·9	22nd	294·9	*294·6*	+0·3	93	+ 65
655	Gauhati	26 8	91 41	59·7	1007·7	1014·7	— 1·5	297·3	300·7	9th, 24th	286·1	281·8	27th	291·7	*290·8*	+0·1	39	+ 11
655*m*	Cherrapunji	25 15	91 42	1313	868·6	..	— 1·4	288·3	292·7	24th	282·5	279·4	14th	285·4	*284·8*	−0·3	136	+ 108
655*a*	Akyab	20 11	92 56	6·1	1012·4	1013·1	— 1·1	300·8	303·1	23rd	289·9	285·8	20th	295·3	*295·1*	−0·4	0	— 28
656	Mandalay	21 59	96 0	76·2	1004·5	1013·3	— 0·8	305·2	308·5	26th	289·9	286·3	20th	297·5	*296·8*	+0·6	0	— 28
656*a*	Tengyueh	25 2	98 33	1626	833·7	1010·7	— 1·8	289·4	293·0	23rd	277·2	271·9	20th	283·3	*282·7*	+0·6	58	+ 30
657	ϕPhu Lien	20 48	106 38	116	1001·3	1015·2	— 1·6	293·5	306·1	15th	286·7	281·7	6th	290·1	289·4	−0·3	15	— 13
658	ϕMoncay	21 31	107 51	9·0	1014·5	1015·6	— 1·9	291·6	299·8	18th	284·7	277·8	2nd	288·2	*288·7*	−0·9	23	— 5
659	ϕHongkong	22 18	114 10	33·2	..	1016·6	— 2·0	290·7	299·3	14th	285·8	280·9	27th	288·3	287·9	+0·1	10	— 18
660	ϕAmoy	24 27	118 4	ca.3	1017·1	1017·5	— 2·4	288·1	294·1	13th, 19th	283·0	278·6	27th	285·6	*285·7*	−0·9	122	+ 94
661	Taihoku, Formosa	25 2	121 31	9·3	1017·4	1018·5	— 1·5	291·1	303·0	13th	284·3	277·4	2nd	287·7	287·2	−0·4	149	+ 111
661*a*	Basco	20 28	121 59	18·7	..	1012·8	— 1·6	297·4	302·2	15th	292·3	289·0	28th	294·9	*295·0*	−0·5	113	+ 76
662	ϕNaha	26 13	127 41	10·5	1015·9	1017·2	— 1·5	291·9	299·3	15th	286·3	281·5	28th	289·1	289·0	0·0	102	+ 65
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1013·9	1014·4	— 2·1	293·3	296·0	14th, 16th	287·8	284·2	1st	290·5	290·4	0·0	55	— 1
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N. **FEBRUARY—ZONE 7.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	956·3	1012·4	..	305·3	308·2	23rd	288·0	285·0	22nd	296·7	*294·9*	+0·4	10	..
716	Morelia	19 42	101 7	1923	811·5	1014·5	..	293·6	297·8	11th	281·9	278·9	20th	287·7	*287·1*	−0·6	21	..
717	Mexico, Tacubaya	19 24	99 12	2309	775·7	..	+ 0·5	295·0	298·5	10th, 11th	279·0	276·5	20th	287·0	286·1	−0·4	38	+ 30
718	ϕSalina Cruz	16 12	95 12	56	1006·5	1012·9	— 1·2	302·2	305·8	28th	295·3	293·2	28th	298·7	*298·4*	+0·8	0	— 11
719	ϕSan Salvador	13 42	89 12	682	938·4	1014·3	+ 0·9	305·5	307·2	25th	287·3	285·6	8th, 25th	296·4	*295·3*	−0·2	0	— 7
720	Belize	17 29	88 12	5·2	1015·9	1010·5	+ 0·6	300·6	304·7	15th	294·8	290·8	12th	297·7	*297·3*	−0·3	159	+ 98
721	Jamaica (Negril Pt.)	18 15	78 23	10·1	..	1017·1	+ 1·8	302·6	304·7	14th	292·0	290·2	17th	297·3	*296·8*	−0·1	20	— 24
722	Port au Prince	18 33	72 20	37·4	1013·6	1017·9	+ 1·7	303·5	305·6	27th	293·2	291·4	11th	298·4	*297·8*	−0·1	78	+ 14
723	Caracas	10 30	66 56	1042	901·2	1016·8	+ 1·6	297·3	300·7	25th	286·3	283·9	6th, 15th	291·8	*290·3*	−1·0	0	— 79
724	Montserrat	16 41	62 9	39·6	1012·8	1017·5	+ 1·3	300·8	303·6	24th	294·4	293·0	16th	297·6	*297·2*	−0·4	47	— 40
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡997·5	‡1015·4	+ 1·3	300·7	302·4	26th	294·7	292·4	10th	297·7	*297·3*	−0·4	58	— 13
725	Barbados	13 8	59 36	55·2	..	1015·9	+ 1·0	301·1	301·8	26th	294·1	291·6	14th	297·6	*295·3*	**−1·4**	37	— 19
731	São Vicente, C. Verde Is.	16 54	25 4	11	1014·6	1015·9	+ 0·7	295·6	297·0	1, 19, 23	290·0	289·0	6th, 28th	292·8	*293·7*	−0·6	0	— 5
732	San Tiago, C. Verde Is.	14 54	23 31	34	1011·3	1015·3	+ 0·3	297·6	301·0	28th	292·2	290·2	3rd	294·9	*295·0*	−0·3	0	— 2
733	Bathurst	13 27	16 34	1·8	1013·6	1013·8	+ 0·4	304·7	309·7	25th	290·9	288·6	1, 2, 4	297·8	*297·4*	+0·9	0	0
735	M'Carthy Island	13 33	14 45	1·1	..	..	..	308·3	311·9	15th, 25th	289·7	287·4	20th, 21st	299·0	..	−1·2	0	0
736	Niénébalé	12 57	7 20	300	..	..	..	306·5	310·0	13th	287·6	282·8	11th	297·1	..	..	0	0
	Timbuktu	16 43	W 3 2	270	..	..	..	304·5	308·9	15th	286·6	282·0	8th	295·6	*295·4*	−0·8	0	0
737	ϕSokoto	13 2	E 5 14	353	..	..	..	307·3	310·2	20, 21, 22	290·8	286·9	10th	299·1	*298·9*	−0·1	0	0
738	Kaduna Capital	10 32	7 25	637	944·2	1015·0	+ 0·9	305·1	308·0	2nd, 6th	288·8	284·1	3rd	296·9	*296·8*	−1·4	0	— 1
739	Hadeija	12 40	10 5	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
740	ϕMaiduguri	11 47	13 11	361	..	..	..	307·6	311·9	6th, 7th	288·1	284·1	11th	297·8	*297·7*	−1·0	0	0
741	El Fasher	13 32	25 18	730	..	..	..	304·5	309·0	1st	281·9	277·0	5th	293·2	*292·5*	..	0	..
743	El Obeid	13 11	30 14	569	947·5	1011·9	+ 0·4	303·8	309·0	8th, 9th,	285·5	280·4	4th	294·6	*294·5*	+0·1	0	0
743*a*	ϕKhartoum	15 37	32 33	390	967·5	1011·9	+ 0·3	302·8	310·0	9th	287·6	283·0	4th	295·2	*295·2*	**−1·8**	0	0
744	Port Sudan	19 37	37 13	5·5	1012·0	1012·7	— 1·0	300·5	303·9	8th	291·8	288·8	4th	296·2	*295·7*	−0·1	0	— 6
745	Berbera, Somaliland	10 22	45 2	9·5	1014·0	1015·0	— 0·3	302·5	304·7	27th	292·8	289·7	24th	297·7	*298·2*	−0·4	5	— 3
746	Aden	12 45	45 3	28·7	1010·7	1014·0	— 1·3	299·4	301·1	14th	296·0	294·4	11th	297·7	*297·1*	−0·4	0	— 5
751	Bombay	18 54	72 49	11·3	1012·3	1013·6	— 0·9	301·1	305·3	27th	293·3	290·2	25th	297·2	296·2	−0·1	1	— 1
752	Kodaikanal	10 14	77 28	2343	770·7	..	— 1·5	292·6	295·4	5th	280·4	278·7	1st	286·5	*285·6*	+0·1	0	— 16
752*a*	Bangalore	12 59	77 38	921	911·6	1012·8	— 1·2	302·9	304·9	7th	288·8	284·0	1st	295·9	*295·6*	+0·3	0	— 4
753	Madras	13 4	80 14	6·7	1012·5	1013·3	— 1·1	302·6	303·9	7th	293·9	290·2	3rd	298·3	*297·8*	0·0	0	— 8
754	Vizagapatam	17 42	83 19	11·6	1012·2	1013·5	— 1·1	301·2	303·7	18th	294·7	290·6	2nd	297·9	*297·4*	−0·4	98	+ 76
755	Port Blair	11 40	92 40	18·0	1009·9	1011·9	— 1·3	302·0	303·9	25th	295·3	293·5	7th	298·7	*298·2*	−1·5	0	— 22
756	Rangoon	16 46	95 48	5·5	1012·6	1013·3	— 0·3	305·2	307·6	25th	292·4	290·6	20th	298·8	*297·6*	−0·5	0	— 6
757	Saigon (Cap St. Jacques)	10 20	107 5	180	991·4	1012·0	+ 1·0	301·3	304·8	17th	294·4	291·4	2nd	297·9	*297·4*	−0·3	0	— 2
759	Nhatrang	12 15	109 12	3·6	1012·6	1013·0	— 0·4	300·7	303·4	14th	293·0	288·8	3rd	296·8	*296·3*	−0·8	3	— 25
	Bolinao	16 23	119 53	7·1	..	1009·5	— 2·1	303·3	306·5	17th	292·8	289·4	11th	298·1	*298·1*	−0·9	33	+ 22
764	Vigan	17 34	120 23	12·2	..	1010·9	— 1·2	303·1	304·7	17th	294·1	290·5	25th	298·6	298·2	−0·4	45	— 41
764*a*	Manila	14 35	120 59	14·2	..	1011·2	— 1·1	304·0	307·0	15th	293·8	290·9	9th	298·9	*298·1*	−0·2	7	— 4
765	ϕOrmoc	11 0	124 36	5·6	..	1009·4	— 1·0	305·4	306·6	15, 16, 17	293·6	291·6	16, 26, 27	299·5	*298·9*	+0·9	58	— 62
765	Guam, Ladrone Is.	13 24	144 38	20·4	..	1008·2	— 1·9	302·4	304·0	21st	296·7	295·0	8th	299·5	*299·4*	+0·3	113	+ 37
		N.	E.															

Between Latitude 10° N. and 0°. **FEBRUARY—ZONE 8.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		N.	W.															
825	Fanning Island	3 54	159 23	5·3	1010·6	1011·2	..	304·8	306·2	18th	298·2	297·1	11th	301·5	*301·0*	+1·0	5	—275
822	Colon	9 23	79 23	11·0	..	1013·0	+ 0·5	302·4	303·0	5th	297·4	295·8	13th	299·9	*299·5*	+0·3	18	— 23
823	Bogota	4 36	74 5	2645	744·7	..	..	292·7	294·7	5th	281·8	279·4	6th	287·3	*286·8*	..	11	— 49
823	Merida, Venez.	8 36	71 9	1641	‡842·9	..	+ 0·7	296·3	298·0	sev. dates	286·4	284·0	7th	291·4	*290·4*	−0·4	32	— 12
824	Ciudad Bolivar	8 9	63 33	38	1008·8	1013·2	..	303·9	306·2	24th	294·9	293·4	10th	299·4	*298·8*	..	19	+ 14
824*a*	ϕEl Peru, Guayanavieja	7 19	61 49	220	986·3	1011·5	+ 0·3	301·3	302·3	13th	290·7	288·3	16th	296·0	*295·3*	−1·3	109	+ 40
824*a*	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1015·0	+ 1·7	301·4	301·9	sev. dates	296·3	294·9	7th, 15th	298·9	*298·3*	−0·4	109	— 9
824*a*	Paramaribo	5 49	55 9	3·7	‡1014·3	‡1014·7	+ 1·5	302·0	303·6	25th	294·7	292·4	14th	298·3	*297·7*	−0·3	129	— 40
824*a*	Cayenne	4 56	52 21	6	..	..	..	303·0	307·0	14th	294·6	291·0	5th	298·8	*297·9*	−0·1	60	—252
	10°—5° N. 30°—25° W.	†† 7 30	†† 28 12	§(74–79)	..	1013·8	+ 1·5	..	..	Sea Temp. 297·9	−0·5	..	..	..	..	297·6	−0·6	..	..
833	Konakri	9 31	13 43	16	..	..	..	304·1	306·3	24th	296·5	294·0	4th	300·3	*299·8*	−0·4	0	0
835	Freetown, Sierra Leone	8 29	13 9	68·3	1003·4	1011·3	+ 0·5	304·9	306·3	1st, 17th	296·7	295·2	1, 8, 14	300·8	*299·9*	−0·1	1	— 7
837	Assuantsi	5 18	1 15	101	..	..	..	304·7	306·3	6, 7, 10	293·9	291·3	10th	299·3	*298·6*	..	160	+ 93
837	ϕAccra	5 33	W 0 12	27·0	1006·0	1009·0	..	304·6	305·8	6th	297·2	294·1	12, 13, 22	300·9	*300·4*	+1·1	2	— 27
838	Lagos	6 27	E 3 24	4·6	1009·6	1010·1	+ 0·4	304·7	305·8	21st, 28th	297·6	295·8	16th	301·1	*300·4*	+0·3	31	— 17
838	Zungeru	9 48	6 10	130	..	..	..	309·4	312·4	22nd	293·2	289·7	23rd	301·3	*301·2*	−0·3	0	— 1
839	ϕYola	9 12	12 30	259	..	..	..	308·3	310·8	22nd, 28th	..	..	..	..	‡*300·1*	−1·2	0	0
841	Wan	7 42	28 3	440	..	..	..	308·5	312·0	1, 27, 28	291·7	288·0	4th, 15th	300·1	*298·7*	−1·3	3	— 3
842	Malakal (Kodok)	9 35	31 37	394	964·2	1008·3	+ 0·1	309·2	312·6	22nd	292·4	288·1	4th	300·8	*299·4*	−0·2	3	+ 3
842*a*	Mongalla	5 11	31 47	439	957·8	1006·7	— 0·5	‡309·4	‡313·5	1st, 2nd	..	..	..	..	..	..	3	— 16
843	ϕEntebbe	0 5	32 29	1171	883·5

FEBRUARY—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1009·5	1010·4	+ 0·7	..	..	..	297·2	296·1	18th	..	..	..	1	− 50
924	ϕManaos	3 8	60 1	43·8	..	..	..	302·7	308·0	22nd	295·8	294·6	10th, 19th	299·2	..	..	275	+144
926	Taperinha	2 30	54 20	20·0	1009·6	1012·0	+ 0·6	301·7	304·0	27th	295·3	294·5	9th	298·5	*297·8*	+0·2	486	+190
927	ϕTuryassu	1 43	45 26	9·1	1009·3	1010·5	− 0·4	303·2	305·8	25th	294·9	293·9	6th	299·0	*298·2*	−0·5	453	+105
928	ϕBarra do Corda	5 30	45 16	81·0	1000·2	1009·5	− 0·4	303·7	306·2	28th	294·9	293·4	14th	299·3	*298·2*	+0·2	290	+ 61
929	Quixeramobim	5 16	39 15	207	989·4	1012·9	+ 1·4	304·1	307·7	2nd	294·2	292·8	21st	299·2	*299·5*	−1·2	149	+149
930	ϕFernando Noronha	3 50	32 25	106	999·3	1011·2	− 0·5	301·2	303·2	6th	296·7	294·7	13th	299·0	*298·7*	−0·2	250	..
934	Ascension Island	7 56	W14 25	16·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
939	Loanda	8 49	E 13 13	59·3	..	..	..	301·5	302·7	18th	296·5	295·5	10th, 20th	299·0	298·7	−0·1	90	+ 24
940	Brazzaville	4 17	15 16	321	976·5	1012·6	+ 1·2	304·3	308·0	20th	294·3	293·0	9th, 28th	299·3	*298·6*	−0·1	150	..
943	Masaka	0 21	31 47	‡1280	..	..	..	299·6	304·7	2nd	..	..	..	*299·2*	0·0	..	61	+ 6
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	300·2	302·4	21, 25, 28	286·3	283·6	1st, 10th	293·3	..	..	98	+ 47
944*a*	Zanzibar	6 10	39 11	21·9	1009·4	1011·9	− 1·2	303·4	304·8	27th	300·1	298·3	6th	301·7	*301·2*	+0·1	25	− 31
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·8	303·6	sev. dates	298·0	296·9	12th	300·4	*300·0*	−0·1	0	+ 22
947	Seychelles, Port Office	4 37	55 27	4·6	1010·1	1010·7	− 0·7	301·3	302·6	19th	298·7	297·4	1st	300·0	*299·3*	+0·2	339	..
957	ϕPadang	0 56	100 22	6·7	1009·4	1010·2	− 0·4	..	..	..	..	..	..	..	..	..	576	+316
958	Batavia	6 11	106 50	8·0	1009·0	1009·9	− 0·1	302·1	304·1	22nd	296·3	295·3	28th	299·2	298·8	+0·3	314	− 68
958*a*	Pontianak	0 1	109 20	2·6	1010·6	1010·9	+ 0·7	..	..	..	..	..	..	..	..	..	100	− 20
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	255	− 45
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	406	..
962	Amboina	3 42	128 10	4·2	1008·1	1008·5	− 0·5	..	..	..	..	..	..	..	..	..	195	+ 73
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	110	+140
965	Daru	9 4	143 13	7·6	..	..	..	303·9	..	..	297·1	..	..	300·5	*300·0*	+0·2	221	− 61
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	303·1	..	..	296·3	..	..	299·7	*299·2*	−0·8	109	−107
967	Rabaul	4 9	152 12	20·7	..	1007·3	..	304·6	306·4	4th	295·6	294·0	13th	300·1	*299·5*	−0·2	598	+325
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1007·6	1007·9	+ 0·1	303·9	305·4	7th	297·7	296·3	1st, 27th	300·8	*300·5*	+0·1	893	+504
970	Ocean Island	0 52 S.	169 35 E.	54·0	1000·5	1006·7	− 0·9	303·9	304·7	sev. dates	297·5	295·8	sev. dates	300·7	*300·1*	−0·1	137	− 88

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Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1009·1	+ 0·7	302·4	305·3	24th	296·7	295·8	28th	299·6	299·8	+0·7	462	+154
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	305·1	309·7	25th	296·8	294·7	26th	300·9	*300·6*	+1·0	109	−120
1021	ϕArequipa	16 22	71 33	2452	760·8	..	+ 0·1	292·6	294·8	26th	282·9	280·6	4th	287·7	*287·2*	0·0	9	..
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	291·0	289·0	15th, 16th	..	*295·2*	..	0	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	729·5	..	..	289·8	296·0	27th	281·6	278·5	7th	285·7	*285·9*	..	74	− 45
1025	ϕCorumba	18 59	57 39	116	995·4	1008·4	+ 1·0	305·5	309·8	12th, 20th	294·9	291·4	5th	300·2	*299·6*	−0·3	146	+ 15
1026	ϕCuyaba	15 36	56 6	165	990·2	1008·9	− 0·2	304·7	307·8	17th	295·1	293·7	17th	299·9	*298·5*	−0·2	205	+ 54
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	− 3
1028	Caetite	14 3	42 37	897	915·2	1013·5	+ 0·7	300·0	305·8	8th	291·6	289·2	28th	295·8	*295·9*	+0·1	91	+ 3
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1006·5	1011·9	− 0·6	302·9	304·0	5th	296·4	294·8	23rd	299·6	*299·3*	+0·3	117	..
1030	ϕAracaju	10 55	37 3	6·1	1012·6	1013·4	+ 0·1	303·1	303·7	6th, 21st	298·1	296·9	1st	300·6	*300·3*	+0·1	..	− 29
1035	St. Helena	15 57	W 5 40	‡604	946·0	1014·3	+ 1·6	297·4	299·7	25th	287·9	285·8	9th, 13th	292·7	*292·7*	+0·6	68	..
1039	Mossamedes	15 12	E12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	− 2
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	220	− 2
1041*a*	Elisabethville	11 39	27 28	1236	874·9	1006·5	− 1·2	301·5	304·1	14th	289·7	287·7	26th	295·6	..	+0·5	241	+127
1042	Gwelo	19 28	29 48	1417	859·7	1010·3	− 0·5	297·9	301·2	1st	289·2	286·8	21st	293·6	..	−0·3	265	..
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡850·8	‡1006·2	− 1·8	298·9	302·3	21st	288·2	285·9	16th	293·6	*292·7*	+0·2	284	+ 90
1044	Zomba	15 23	35 18	955	904·0	1007·9	− 0·8	300·2	303·6	1st	291·5	289·1	21st	295·9	*295·0*	+0·7	240	− 31
1045	ϕAntananarivo	18 55	47 33	1375	862·7	1009·3	+ 0·6	299·5	302·7	4th	288·8	285·4	15th	294·1	293·5	+0·7	134	−132
1046	Tamatave	18 10	49 24	5	..	..	..	302·7	304·5	..	295·5	293·5	..	299·1	*298·6*	..	517	..
1047	Vohémar	13 21	50 1	3	..	..	..	‡305·5	306·5	..	296·7	295·5	..	301·1	*300·5*	..	429	..
1048	Antalaha	14 58	50 19	3	1009·5	1009·8	..	..	..	..	..	..	..	..	..	..	..	−112
1055	Cocos Keeling Is.	12 5	96 53	4·6	1012·3	1012·8	+ 0·9	303·4	304·4	23rd	298·6	296·4	3rd	301·0	*300·6*	+0·5	75	− 116
1057	ϕChristmas Island	10 25	105 43	5·5	1007·1	1007·7	+ 0·2	304·3	306·3	11th	297·6	296·3	16th	300·9	*300·2*	+0·5	183	..
1061	Kupang	10 10	123 34	45·1	1003·9	1009·2	+ 0·3	303·6	306·4	4th	296·2	295·5	20th	299·9	299·4	+0·2	268	−113
1061*a*	ϕDerby	17 18	123 40	16·2	1006·2	1008·1	+ 0·5	307·8	311·9	4th	298·9	294·7	18th	303·3	..	+0·3	90	− 60
1062	ϕHall's Creek	18 13	127 46	373	966·9	1007·5	+ 0·2	310·4	313·6	4th	296·6	291·5	4th	303·5	*303·1*	+0·9	30	− 85
1063	Darwin	12 28	130 51	29·6	1003·9	1007·2	+ 0·8	305·9	307·9	14th	297·0	293·7	28th	301·4	*300·4*	−0·2	300	− 70
1064	Daly Waters	16 16	133 23	211	982·2	1005·4	0·0	309·6	314·1	3rd	296·3	292·4	22nd	302·9	*302·5*	+0·3	100	+155
1065	ϕMein	13 13	142 47	122	992·4	1006·0	− 0·7	304·7	308·6	20th	294·9	293·3	24th	299·8	..	−0·5	427	−175
1066	ϕGeorgetown, Queensland	18 22	143 32	302	975·5	1008·7	+ 1·1	308·6	312·4	28th	295·2	290·2	17th	301·9	..	+1·2	34	..
1066*a*	Willis Island	16 18	149 59	8·5	1006·6	1007·6	..	302·7	305·0	1st	298·4	296·7	3rd	300·6	*300·2*	..	65	+140
1067	Samarai	10 37	150 40	15·2	..	1007·4	− 0·6	302·8	..	..	..	..	..	..	‡*300·6*	−0·5	339	+140
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1008·3	1009·0	0·0	302·8	305·8	12th	297·2	296·0	19th	300·0	*299·7*	+0·1	403	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 112 and 113.
ϕ Change of normals *see* pages 112 and 113.

FEBRUARY—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	in.	in.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	302·6	303·3	28th	297·0	294·7	20th	299·8	*299·5*	+0·8	125	−129
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1012·0	1015·2	+ 0·8	293·1	295·0	9th	287·8	286·5	28th	290·5	*290·4*	+0·3	0	0
1122	Iquique	20 12	70 11	9	1012·3	1013·3	− 0·1	297·2	302·3	2nd	288·7	287·6	14th	292·9	*293·6*	−0·4	0	0
1123	Catamarca	28 27	65 47	510	951·1	1007·3	− 0·4	307·1	314·0	21st	291·9	286·3	7th	299·5	299·2	+0·4	13	− 44
1124	Salta	24 46	65 28	1178	882·5	1009·9	+ 1·3	300·4	305·3	21st	289·0	284·4	7th	294·7	294·8	+0·2	89	− 58
1125	Goya	29 9	59 15	26	1006·0	1009·0	+ 0·2	308·5	313·0	25th	293·9	288·1	6th	301·2	300·6	+2·3	17	− 89
1126	Asuncion	25 17	57 41	93	999·6	1010·4	+ 1·0	309·2	313·3	24th	294·3	289·6	7th	301·8	300·4	+0·6	65	− 65
1127	Curityba	25 25	49 17	908	911·5	1011·5	− 0·9	300·1	304·8	27th	288·0	283·3	11th	294·0	*293·0*	−0·1	69	− 79
1128	Rio de Janeiro	22 54	W43 10	33·0	1008·1	1011·9	+ 0·2	303·1	308·4	6th	295·4	293·6	21st, 22nd	299·2	298·5	−0·1	‡207	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	298·9	305·1	2nd	289·6	283·6	10th	294·2	*294·2*	−0·9	303	+222
1141	Kimberley	28 42	24 47	1202	881·1	1009·6	+ 0·2	302·5	308·6	4th, 8th	290·7	286·9	1st	296·6	296·1	−0·2	55	− 16
1141*a*	Johannesburg	26 11	28 4	1806	821·9	1011·4	− 0·2	298·0	303·1	4th	286·5	282·9	17th	292·2	*291·7*	+0·6	142	+ 9
1142	Bulawayo	20 9	28 35	1340	865·6	1008·9	− 1·2	297·8	301·7	20th	289·3	285·8	4th	293·6	*293·1*	−0·6	296	+194
1143	Durban	29 52	31 3	15·2	1013·7	1015·5	− 0·2	301·0	304·3	9th	294·0	291·2	2nd, 22nd	297·5	*297·0*	−0·1	167	+ 42
1144	Lourenço Marques	25 58	32 36	59	..	1012·7	− 0·4	302·5	306·7	20th	295·0	290·1	22nd	298·8	298·7	+0·4	329	+159
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	290·7	288·0	..	..	..	..	128	..
1146	Fort Dauphin	25 2	46 58	25	..	1011·3	..	301·0	303·0	..	295·2	292·0	..	298·1	*297·7*	..	80	..
1147	Mauritius	20 6	57 33	55·2	1003·9	1010·2	− 0·8	302·4	304·1	1st	296·1	291·6	28th	299·3	298·8	0·0	148	− 65
1159	Onslow	21 43	114 57	4·3	1006·1	1006·9	+ 0·3	311·0	319·3	21st	297·9	295·3	25th	304·4	..	+1·6	7	− 17
1160	Cue	27 27	117 52	454	959·0	1008·9	0·0	311·7	315·9	13th	297·2	291·4	24th	304·4	..	+1·8	7	− 12
1161	ϕNullagine	21 53	120 5	386	965·0	1006·6	+ 0·2	311·6	315·4	19th	296·8	291·3	5th	304·2	..	+0·1	15	− 42
1162	Laverton	28 40	122 23	466	959·7	1010·3	− 0·6	311·4	316·8	23rd	296·2	288·6	25th	303·8	*303·6*	+3·7	0	− 29
1163	Alice Springs	23 38	133 37	587	944·4	1007·4	− 0·8	310·5	315·1	27th	295·2	290·0	2nd	302·8	*303·0*	+2·0	0	− 42
1164	ϕWilliam Creek	28 55	136 21	76·2	1002·6	1011·0	+ 0·4	312·1	317·2	24th	294·7	287·4	1st	303·4	*303·1*	+2·1	0	− 11
1165	Thargomindah	27 58	143 43	123	995·5	1009·0	+ 0·2	311·9	316·4	25th	298·1	292·1	2nd	305·0	*304·7*	+2·6	19	− 23
1166	Mitchell	26 32	147 52	336	974·0	1010·6	..	309·1	315·2	28th	292·3	285·8	15th	300·7	..	+2·2	15	− 71
1167	ϕRockhampton	23 24	150 30	11·3	1010·0	1011·4	+ 1·2	305·5	309·7	1st	294·9	291·7	16th	300·2	..	+0·6	11	−177
1168	ϕBrisbane	27 28	153 2	41·8	1009·9	1014·6	+ 2·0	302·9	310·0	1st	293·3	289·5	15th	298·1	*297·7*	+0·4	18	−139
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1013·8	1015·7	+ 2·9	296·4	299·1	7th	..	..	..	..	..	..	136	− 1

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Between Latitude 30° S. and 40° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	in.	in.
1221	Juan Fernandez	33 37	78 50	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1222	Punta Tumbes	36 37	73 6	120	1000·8	1015·2	+ 0·1	290·4	294·0	22nd, 25th	283·9	282·0	10th, 16th	287·1	*287·4*	−1·1	27	+ 18
1223	Punta Angeles, Valparaiso	33 1	71 38	41	1009·5	1014·4	− 0·2	294·8	299·6	22nd	285·9	284·0	14th, 21st	290·3	*289·8*	−1·1	0	0
1224	Santiago	33 27	70 42	520	953·6	1012·9	+ 0·7	301·5	305·0	23rd	283·7	281·5	12th, 28th	292·6	*291·4*	−0·5	0	− 2
1225	Cordoba	31 25	64 12	423	961·8	1009·2	− 0·9	305·2	310·8	24th, 25th	289·7	283·0	17th	297·5	297·1	+1·6	84	− 23
1226	Bahia Blanca	38 45	62 15	25	1008·2	1011·2	− 1·3	303·6	312·0	24th	290·1	283·3	17th	296·9	296·6	+1·5	131	+ 76
1235	Buenos Ayres (Chacarita)	34 36	58 22	25	1008·9	1011·6	− 1·1	301·6	308·2	24th	291·3	285·5	6th	296·5	296·5	+1·0	73	+ 5
1236	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1011·3	− 1·7	..	306·0	24th	..	287·5	7th	..	*297·3*	+2·4	105	+ 31
1238	ϕPorto Alegre	30 2	W51 13	23·5	1006·9	1009·6	− 2·7	303·9	308·4	13th	292·5	287·4	20th	298·2	297·7	0·0	23	− 49
1239	ϕCape Town	33 56	E 18 29	12·2	..	1013·3	− 0·1	300·4	310·6	15th	288·3	282·7	18th	294·3	*292·8*	0·0	4	− 11
1240	Danger Point	34 37	19 18	27·7	1009·5	1012·8	..	295·7	300·2	6th	287·8	285·8	21, 22, 25	291·7	..	−0·2	7	− 13
1241	Riversdale	34 6	21 16	‡*100*	1002·0	1013·6	..	300·5	309·1	15th	288·3	282·4	21, 22, 25	294·4	..	..	11	− 22
1242	East London	33 2	27 55	44·8	..	1014·2	+ 0·2	298·1	303·0	23rd	291·0	286·3	19th, 21st	294·6	..	+0·4	164	+105
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1006·7	1013·9	+ 0·6	303·5	314·9	4th	291·0	285·8	24th	297·2	*296·6*	+0·8	0	− 11
1260	Katanning	33 42	117 35	310	979·3	1014·5	+ 0·4	304·2	313·8	4th	287·4	282·6	24th	295·8	..	+1·5	0	− 15
1261	Coolgardie	30 57	121 10	423	965·4	1012·2	− 0·2	308·3	316·2	19th	291·6	285·7	25th	300·0	*299·8*	+2·4	0	− 19
1262	Esnela	31 45	128 58	4·6	1014·1	1014·6	+ 0·4	298·0	317·4	21st	291·3	286·6	20th	294·7	*294·0*	0·0	3	− 13
1263	Streaky Bay	32 48	134 13	13·1	1013·6	1015·0	+ 0·7	305·8	315·2	21st	289·3	284·1	2nd	297·6	*296·8*	+2·1	0	− 12
1264	Adelaide	34 56	138 35	42·7	1010·9	1015·9	+ 1·7	305·8	315·2	22nd	290·5	285·3	2nd	298·2	*297·7*	+1·9	2	− 16
1265	Melbourne	37 49	144 58	35·1	1012·7	1016·7	+ 2·2	297·9	314·2	22nd	286·6	283·0	16th	292·3	*291·9*	−0·5	15	− 28
1266	Bourke	30 13	145 58	110	1001·8	1014·4	+ 0·3	313·1	318·6	24th	295·0	288·0	2nd	304·0	..	+2·7	8	− 35
1267	ϕSydney	33 51	151 13	42·1	1010·7	1015·6	+ 1·7	299·6	311·8	18th	291·4	288·2	16th	295·5	*295·2*	+0·7	12	− 95
1268	ϕLord Howe Island	31 20	159 0	4·6	1016·0	1016·6	+ 2·3	299·2	301·3	19th	292·3	286·6	15th	295·7	..	+0·1	65	− 51
1271	Auckland	36 50	174 50	38·1	..	1012·2	− 2·2	294·4	298·0	9th	287·5	284·2	18th	290·9	..	−1·5	98	+ 21
1272	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..

FEBRUARY—ZONE 13.

Between Latitude 40° S. and 50° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	in.	in.
1301	Chatham Island	43 57	176 31	45·7	..	1001·9	..	..	..	..	..	..	..	..	..	..	3	+ 42
1321	Isla Guafo	43 34	74 45	140	995·9	1012·6	− 3·6	288·4	290·9	6th	284·1	281·6	28th	286·3	*286·1*	+0·5	83	+ 22
1322	Punta Galera	40 1	73 44	40	1010·3	1015·1	− 1·1	288·6	291·3	23rd	283·7	281·2	2nd, 10th	286·1	*286·7*	−0·3	40	− 32
1323	Sarmiento	45 30	69 0	274	975·2	1005·5	− 3·9	298·5	308·2	6th	283·6	279·2	14th	291·1	291·1	+1·1	3	− 5
1324	Puerto Madryn	42 49	W64 58	14	1007·0	1008·4	− 1·6	300·3	307·8	19th	287·6	280·6	21st	293·9	294·0	+1·7	7	− 3
1325	ϕLaunceston	41 27	E147 10	10·1	1012·5	1013·7	− 0·6	298·5	305·8	12th	283·5	278·0	16th	291·0	*289·7*	−0·3	23	− 5
1326	ϕHobart	42 53	147 20	53·9	1007·4	1014·0	+ 1·0	294·0	301·4	4th	284·0	280·1	15th	289·0	*287·7*	−0·8	19	− 19
1327	Invercargili	46 25	168 21	3·7	..	..	..	289·9	299·1	2nd	280·1	276·9	24th	285·0	..	−1·8	213	+138
1328	Dunedin	45 52	170 31	91·4	..	1006·0	− 7·1	290·4	300·2	1st	281·1	276·9	16th	285·7	..	−1·5	132	+ 64
1329	Christchurch	43 31	172 39	7·6	..	1005·8	− 8·7	293·8	300·5	8th	282·4	275·6	18th	288·1	..	−0·8	52	+ 6
1330	Wellington	41 16	174 46	3·0	..	1008·8	− 6·3	293·1	296·5	2nd	285·9	280·1	10th	289·5	..	−0·4	37	− 43

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

FEBRUARY—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	m.m.
1421	Islota de los Evangelistas	52 24 S.	75 6 W.	55	994·0	1000·7	— 2·1	283·0	285·6	6th	279·7	277·2	20th	281·3	*281·2*	−0·5	253	+ 6
1422	Puerto de Punta Arenas	53 10	70 54	28	996·6	1000·0	— 0·7	287·2	291·4	3rd	280·7	276·7	21st	283·9	*284·2*	+0·5	20	− 9
1423	Punta Dungeness	52 24	68 26	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1424	Santa Cruz	50 11	68 21	12	1000·4	1001·4	— 3·1	294·5	303·8	6th	282·1	276·8	21st	288·3	287·8	+0·6	23	+ 14
1424*a*	‡Año Nuevo	54 39	64 8	50	..	..	..	285·3	293·0	3rd	279·4	274·6	6th	282·3	*281·2*	+0·1	107	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1004·8	..	286·9	290·2	15th	280·3	275·2	4th	283·6	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	1001·4	1004·0	+ 2·7	285·9	290·8	14th	280·1	276·3	9th	283·0	283·3	+0·5	..	..
1429	S.Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	1000·8	1001·3	+ 4·7	282·8	294·0	16th	275·3	270·8	27th	279·1	*279·2*	+0·7	51	− 54

FEBRUARY—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44 S.	44 39 W.	7	996·2	997·1	+ 5·7	274·6	280·0	2nd	271·7	269·0	28th	273·1	274·2	+0·8	56	+ 17
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—FEBRUARY, 1923.

Date.	St. Helena. 1035. Direction	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).	Entebbe. 844. Direction and Force (Beaufort).	Malden Island. 905. Direction and Force (Beaufort).	Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).	Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h. 17h.	7h. 21h.	9h. 20h.	9h.	8h. 20h.	9h.
1	SE	3·7	SE 1	ENE 2 Calm 0	SW 1 W 2	EbyN 4 E 2	NW 2	NW 1 Calm 0	SE 4
2	SE	3·4	SE 4	ENE 1 Calm 0	E 1 NW 1	E 4 EbyN 3	Calm 0	W 5 W 3	E 5
3	SE	3·5	ESE 4	SE 2 Calm 0	SW 1 SW 2	ENE 5 ENE 4	NW 2	W 1 SW 1	E 1
4	SE	4·2	ESE 3	ENE 1 SW 1	SE 1 E 2	NE 5 ENE 3	..	SW 1 NNW 3	E 1
5	ESE	4·1	E 3	Calm 0 Calm 0	NE 1 E 1	ENE 5 NE 3	Calm 0	NW 3 N 1	N 3
6	SSE	4·2	ESE 3	Calm 0 SW 2	SE 1 W 1	ENE 3 NE 2	Calm 0	N 2 N 1	NE 3
7	SSE	4·3	ESE 4	ENE 2 SSW 2	Calm 0 NW 2	E 4 ENE 3	NW 2	N 3 N 3	NE 5
8	SE	6·5	ESE 3	ENE 1 WSW 1	NW 1 SW 1	ENE 4 ENE 3	NW 2	N 3 N 2	NE 5
9	SE	7·7	ESE 2	ENE 2 SSW 1	Calm 0 Calm 0	ENE 5 ENE 3	NW 2	NW 3 N 2	NNE 4
10	SSE	5·2	ESE 3	WSW 2 WSW 2	Calm 0 Calm 0	ENE 4 ENE 3	NW 2	NNE 1 N 1	NNE 3
11	SE	3·6	ESE 4	NW 1 WSW 1	SE 1 NW 2	EbyN 3 ENE 4	..	Calm 0 NE 2	N 3
12	ESE	3·7	ESE 4	NW Calm 0	Calm 0 Calm 0	EbyN 4 EbyN 4	NW 2	NE 4 NNE 5	NE 3
13	SE	4·4	ESE 5	Calm 0 SW 1	NE 1 E 1	E 5 E 5	NW 4	NNE 5 NE 3	W 2
14	SE	4·7	ESE 4	WSW 1 Calm 0	NW 1, E 1	E 5 E 5	NW 2	NE 3 NE 4	SW 2
15	ESE	4·0	E 4	Calm 0 SW 2	Calm 0 E 1	EbyN 5 EbyN 4	NW 2	NE 4 NE 3	SW 2
16	SE	4·3	ESE 3	Calm 0 SW 1	Calm 0 E 1	E 5 EbyN 4	NW 2	NE 4 NE 3	N 3
17	SE	4·5	ENE 3	NE 1 SW 1	NW 1 Calm 0	EbyN 4 ENE 2	Calm 0	W 2 WSW 2	NNW 3
18	SE	5·5	ESE 2	NE 1 SW 2	E 1 E 1	EbyN 3 EbyN 4	..	NE 4 NE 2	NNE 4
19	ESE	6·0	ESE 2	Calm 0 SW 1	Calm 0 Calm 0	ENE 3 EbyN 4	NW 2	NE 3 NE 4	NE 4
20	ESE	6·1	ESE 4	Calm 0 SW 1	Calm 0 Calm 0	E 5 E 5	NW 2	NE 2 NE 1	SE 4
21	ESE	4·8	ESE 4	NW 2 SW 1	Calm 0 Calm 0	E 5 EbyN 4	NW 2	NE 2 NE 5	Calm 0
22	SE	4·1	E 4	WSW 1 WSW 1	SW 1 Calm 0	E 5 E 3	NW 2	NE 5 NE 3	W 1
23	SE	3·3	ESE 2	WSW 1 SW 2	SW S 2	E 4 EbyS 3	Calm 0	NE 6 NE 3	E 1
24	SE	3·6	SE 3	WNW 1 Calm 0	S 1 Calm 0	EbyN 5 E 4	NW 2	NE 3 NE 3	E 1
25	ESE	3·9	SE 3	NW 2 WSW 2	W 3 N 2	EbyN 5 EbyN 4	..	NE 4 NE 4	NE 2
26	SE	3·6	ESE 4	Calm 0 W 1	W 1 E 1	EbyN 4 EbyN 4	Calm 0	E 4 E 6	NE 2
27	ESE	3·3	ESE 3	NW 1 WSW 3	SE 1 SW 2	EbyN 5 E 3	Calm 0	NE 3 NE 2	NE 3
28	ESE	4·8	ESE 3	NW 1 WSW 2	NW 1 S 2	EbyN 5 E 4	NW 2	NE 3 NE 3	..
Mean	..	4·5	3·3	1·0 1·1	0·7 1·0	4·4 3·5	1·5	3·0 2·8	..
§ Resultant	130° (93)	..	110° (92)	255° (31)	175° (6)	80° (95)	315° (70)	25° (66)	40° (52)
§ Normal	141° (90)	6·5	‖93° (79)	288° (21)	265° (30)	‖‖ 73° (82)	235° (19)	‖85° (35)	81° (53)

‖Normal refers to ½ (9 + 21). ‖‖Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—FEBRUARY 1923.

‡‡*Barents Sea.*—From the 1st to 10th there was ice everywhere round Bear Island. After this the ice scattered and the sea became open to the north and west. From the 16th to 20th no ice was visible, but from the 21st to 28th the island was again surrounded by scattered drift ice.

‡‡*Spitsbergen.*—King's Bay froze over at the beginning of the month. Outside King's Bay and Icefjord the sea was open, but there was scattered ice in Icefjord.

‡‡*Iceland.*—The coasts of Iceland and Grimsby were free of ice. The normal duration of average ice conditions is 4 days visible.

‡‡*Denmark Strait.*—At Angmagsalik there was a broad belt of "Storis" lying along the land during the first few days, and from the 5th to the end of the month there was ice everywhere except for a land water now and again.

‡‡*N. Atlantic and Labrador.*—Three icebergs were observed on the Newfoundland Banks south of the 48th parallel, the normal being twelve. The eastmost occurred in 45°W. At Cape Race there was close ice everywhere and south of the Cabot Strait vast masses of drift ice extended along the coast of Nova Scotia. The Gulf of St. Lawrence was full of ice and in Belle Isle Strait there was closely packed ice everywhere.

‡‡*Davis Strait.*—The first "Storis" of the season passed Cape Farewell on the 21st; normally it passes on the 14th. It was drifting some 10 miles offshore and remained until the 28th without reaching further north. Disko Bay was covered with young ice for about a week early in the month, but later on it was only at Upernivik, Umanak and Egedesminde that the ice was firm.

‡‡ *Isforholdene i de arktiske Have* 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, MARCH 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF MARCH 1923

BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **MARCH—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23 N.	156 17 W.	7·0	..	..	..	..	261·3	sev. dates	..	226·3	6th	..	..	..	11	+ 5
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125	Upernivik	72 47	56 7	19·2	1004·2	1006·8	— 5·6	252·8	277·6	31st	244·1	234·0	9th	248·5	*248·3*	−3·4	15	− 2
133	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135	Jan Mayen	70 59	W 8 18	23·1	1009·1	1012·0	..	..	275·0	19th	270·3	265·4	3rd	..	*272·1*	..	27	..
139	‡Spitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1006·9	1008·4	— 1·1	..	274·2	9th, 30th	255·3	241·6	21st	..	260·2	+5·8	91	+ 63
140	Björnöen	74 28	19 15	40·5	1005·1	1010·3	..	..	274·8	13th	266·4	259·2	21st	..	*270·0*	..	44	..
141	Gjesvaer	71 6	25 22	6·5	1013·8	1014·0	+ 9·2	..	277·7	23rd	270·7	262·6	3rd	..	*273·1*	+3·4	83	+ 24
142	Mehavn	71 1	27 47	4·6	1013·2	1014·3	+ 8·0	..	277·2	23rd	268·4	258·9	4th	..	*271·7*	+3·1	78	+ 22
143	Vardö	70 22	31 8	6·8	1013·8	1014·7	+ 8·9	..	276·8	18th	267·4	259·1	4th	..	*270·4*	+2·1	39	− 12
147	Malye Karmakouly	72 23	52 43	14·8	1005·4	1007·3	— 3·3	263·9	273·7	10th	254·3	246·6	18th	259·1	*259·5*	+1·6	37	+ 30
148	Waigatz	70 24	58 47	11·2	1004·0	1005·5	— 2·7	260·5	273·1	13th	250·3	230·9	16th	255·4	*255·7*	..	2	..
153	Dickson	73 30 N.	80 23 E.	13	1002·0	1003·8	..	248·9	264·8	11th	242·4	233·6	17th	245·6	..	..	4	..

Between Latitude 70° N. and 60° N. **MARCH—ZONE 2.**

203	Nome	64 30 N.	165 24 W.	6·7	..	1014·9	+ 3·5	266·4	274·1	31st	257·7	241·3	19th	262·1	*262·6*	+1·8	28	+ 5
204	Candle	65 55	161 57	2·4	..	..	..	262·8	276·9	29th	251·6	231·9	7th	257·2	..	+1·6	9	..
205	Tanana	65 10	152 6	67·1	..	1017·6	+ 0·6	262·6	272·4	17, 30, 31	252·3	230·8	11th	257·4	..	−1·2	33	+ 16
206	Rampart	65 30	150 15	122	..	..	..	261·2	272·4	18th	250·1	231·9	2nd	255·7	..	−2·2	15	+ 3
207	Valdez	61 7	146 16	8·2	..	..	..	273·7	279·7	27th	262·6	253·6	13th, 23rd	268·2	..	−0·7	64	− 12
208	ϕEagle	64 46	141 12	254	..	1017·9	+ 3·5	265·8	275·2	31st	252·3	231·3	8th	259·1	..	−0·7	11	0
209	ϕDawson	64 4	139 29	324	978·2	1021·5	+ 3·0	261·3	271·9	31st	274·4	235·2	12th, 22nd	254·4	..	−3·3	45	+ 31
210	Carcross	..	..	662	..	..	..	267·9	278·6	18th	257·8	245·2	13th	262·8	..	+0·3	8	− 5
211	Fort Good Hope	66 11	134 34	65·2	1015·8	1025·0	..	252·2	271·3	17th	240·3	225·8	8th	246·3	..	..	28	+ 10
212	Fort Simpson	61 52	121 35	129	1005·6	1023·3	+ 5·1	260·6	268·0	14th, 18th	246·3	234·1	26th	253·4	..	−0·3	29	+ 16
213	Hay River	60 51	115 20	161	1000·1	1022·3	+ 4·4	255·2	269·7	18th	244·4	230·2	23rd	249·8	..	−5·7	9	− 4
232	Jacobshavn	69 13	51 2	12·6	998·0	999·6	−10·4	263·7	278·3	30th	256·1	247·3	28th	259·9	*260·3*	+3·5	4	− 8
233	Godthaab	64 11	51 43	20·4	990·2	992·8	−13·0	270·3	279·0	18th	263·8	260·2	27th	267·1	*266·7*	+1·4	0	− 45
234	Ivigtut	61 12	48 10	13·0	988·6	990·3	−14·3	273·5	280·9	7th	267·3	258·8	24th	270·4	*270·1*	+1·8	40	− 46
235	Angmagsalik	65 37	37 33	31·7	994·4	998·4	− 8·4	274·4	278·4	27th	268·7	260·9	4th	271·5	*271·7*	+6·9	130	+ 68
231	Stykkisholm	65 5	22 46	25	1002·0	1005·1	− 0·8	279·9	283·0	19th, 28th	274·0	267·3	1st, 3rd	276·9	*276·7*	+6·0	165	+115
232	Vestmanno	63 24	20 17	132	989·6	1005·8	+ 1·9	279·8	281·5	27th	276·1	268·9	4th	277·9	*277·9*	+4·1	169	+ 56
234	Grimsey	66 33	18 1	22·0	1004·2	1006·9	− 0·1	278·0	281·1	28th	273·4	267·6	4th	275·7	*275·1*	+5·4	..	..
235	ϕThorshavn	64 41	14 22	18·0	1009·1	1011·3	+ 5·4	279·4	284·5	28th	274·6	267·4	4th	277·0	*276·9*	+5·2	120	+ 39
236	Teigarhorn (Berufjord)	62 3	6 45	26·3	1013·0	1016·3	+ 9·6	280·3	283·5	15th	275·8	272·0	8th	278·1	*278·3*	+2·2	51	− 73
237	Lerwick	60 9	W 1 11	46·9	..	1018·9	+11·9	279·9	283·0	26th	276·3	273·0	31st	278·1	*278·2*	+1·3	24	− 56
238	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1016·6	1022·2	+11·6	281·4	288·8	28th	274·3	271·4	11th	277·9	*277·9*	+2·9	33	− 88
239	Aalesund	62 28	6 10	6·3	1021·4	1022·2	+13·2	..	283·6	26th	274·0	270·2	1st	..	*277·1*	+1·6	7	− 73
240	Trondhjem	63 26	10 25	39·5	1018·7	1023·7	+14·6	278·3	284·2	25th	271·1	265·0	1st	274·7	*275·0*	+2·8	7	− 48
241	Bodö	67 17	14 24	22·3	1018·1	1020·8	+14·0	..	280·0	26th	272·7	262·6	2nd	..	*275·1*	+3·7	61	+ 3
242	Haparanda	65 50	24 9	9·2	1022·3	1023·5	+13·1	271·6	281·0	19th, 28th	262·8	243·5	2nd	267·2	*267·6*	+2·7	15	− 11
242*a*	ϕHelsingfors	60 10	24 57	11·7	1023·9	1025·4	+12·9	273·8	283·5	21st	266·2	255·4	1st	270·0	*269·8*	+0·7	14	− 21
	Kuopio	62 54	27 40	90·3	1013·0	1024·7	+12·7	272·9	282·2	24th	261·7	242·2	1st	267·3	*268·2*	+1·1	0	− 35
243	Kola	68 53	33 1	6·7	1016·6	1017·5	+ 9·2	272·0	278·5	24th	264·7	247·7	3rd	268·4	*268·4*	+3·3	15	+ 4
244	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
245	Arkhangelsk	64 34	40 31	6·3	1018·2	1019·0	+ 6·7	269·7	276·0	24th	261·3	246·6	5th	265·5	*265·6*	+0·4	14	− 6
246	ϕMezen	65 50	44 16	14·9	1013·6	1015·5	+ 4·8	268·2	275·2	24th	261·1	245·9	31st	264·6	*264·8*	+1·3	14	+ 5
247	Oust-Tsylma	65 25	52 18	? 68	..	..	..	266·7	275·3	24th	257·4	244·0	31st	262·0	*262·0*	−0·1	12	4
248	ϕTcherdyn	60 24	56 31	?177	989·5	1012·5	− 4·3	267·8	274·8	25th	259·4	250·0	20th	263·6	*263·3*	−1·6	39	+ 11
249	Berezov	63 56	65 4	39·5	1005·8	1011·1	− 4·9	263·0	276·0	25th	252·0	242·7	30th	257·5	*257·1*	−2·9	13	− 3
250	Obdorsk	66 31	66 35	23·7	1004·3	1007·5	− 8·3	258·6	272·4	13th	248·4	233·8	17th	253·5	*253·4*	−1·4	13	+ 5
251	ϕSourgout	61 15	73 24	? 40	1003·6	1008·3	−10·4	..	271·2	18th, 20th	249·5	232·1	6th	..	*257·8*	−2·1	34	+ 19
252	Doudinka	69 23	86 4	20·0	1001·8	1004·6	−10·7	..	264·2	26th	242·9	227·0	15th	..	*247·1*	−1·7	5	0
253	Touroukhansk	65 47	87 57	45·0	1000·4	1006·6	− 9·7	..	270·8	21st	245·2	224·4	17th	..	*252·8*	−3·5	9	− 2
261	Viliouisk	63 45	121 35	120	..	..	..	..	271·1	30th	249·1	228·3	9th	..	*255·2*	+2·6	8	+ 1
262	Iakoutsk	62 1	129 43	108	999·9	1014·2	− 5·9	..	273·7	30th	247·5	231·8	2nd	..	*254·3*	+3·6	2	− 3
263	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		° N.	° E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*.
ϕ Change of normals *see* pages 105 and 106.

MARCH—ZONE 3. Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1004·0	− 3·3	274·6	276·9	8th, 25th	270·4	261·9	10th	272·5	..	+2·9	34	− 71
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1006·8	0·0	278·2	280·8	7, 19, 20	272·8	267·4	11th, 12th	275·5	*275·3*	+1·0	58	
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	
305	Dillingham	59 0	158 28	24·4	..	..	..	271·7	276·3	26th, 27th	265·3	249·7	1st	268·5	..	+0·8	124	− 42
306	Kodiak (Radio)	57 46	152 22	6·1	..	1011·8	+ 4·4	277·9	280·2	sev. dates	271·3	259·7	1st	274·6	*274·2*	+0·9	‡45	
307	55°—50°N. 150°—145°W.	††51 54	††147 15	§(23)	..	1016·6	+ 7·8	..	..	Sea Temp. 277·4 | +1·7	..	..	..	277·4	+0·6	..	..
309	Sitka	57 3	135 19	27·4	..	1014·9	+ 2·9	279·9	289·1	30th	272·6	265·8	13th	276·2	*275·7*	+0·6	284	+147
310	Prince Rupert	54 18	130 18	51·8	1011·5	1018·0	+ 5·6	279·7	288·6	29th	273·6	268·0	2nd	276·6	*276·7*	+0·1	420	+ 99
311	Barkerville	53 2	121 35	1274	866·6	1016·7	+ 3·0	273·6	283·0	31st	264·7	253·6	17th	269·1	*269·1*	−0·4	164	− 5
312	Kamloops	50 41	120 29	385	974·0	1021·3	+ 2·6	282·5	294·2	30th	270·8	264·1	3rd	276·7	*276·7*	+0·5	3	
313	Calgary	51 2	114 2	1045	891·5	1016·5	+ 1·0	276·9	289·1	28th	263·6	251·9	14th	270·2	*269·3*	+0·9	57	+ 40
314	Fort Chipewyan	58 42	111 10	218	991·7	1021·2	+ 3·3	258·6	271·9	19th	246·3	233·6	23rd	252·4	*253·2*	−5·5	8	− 14
315	Prince Albert	53 10	105 38	442	964·3	1021·9	+ 5·1	266·9	279·7	1st	253·0	240·2	17th	259·9	*259·4*	−3·2	8	+ 17
316	Qu'Appelle	50 30	103 47	645	937·4	1019·7	+ 1·5	268·0	279·7	19th	254·1	241·3	18th	261·1	*260·3*	−3·1	45	+ 24
317	Minnedosa	50 15	99 50	515	954·2	1021·5	+ 2·2	262·8	281·3	1st	251·2	233·2	18th	257·0	*256·7*	−6·6	41	..
318	Berens River	52 18	97 23	216	..	..	..	259·4	275·2	1st	246·4	236·9	17th	252·9	..	−9·3	..	..
318a	ϕPort Nelson	57 0	92 51	14·9	1018·8	1020·8	+ 3·4	253·4	263·0	22nd	242·2	231·9	11th	247·8	..	−6·0	..	..
319	Fort Hope	51 33	87 49	‡260	984·3	1019·4	+ 1·7	260·8	274·1	1st	243·0	231·3	13th	251·9	*252·2*	−9·2	33	+ 7
320	ϕMoose Factory	51 14	80 30	9·1	1015·9	1017·1	+ 0·1	260·3	268·0	2nd	246·2	235·2	12th	253·3	..	−7·6	43	+ 19
321	Fort George	53 50	79 5	97·5	..	..	..	254·1	265·2	16th	241·1	229·7	11th	247·6	*247·9*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	263·4	275·8	17th	247·1	231·9	12th	255·2	..	−5·7	33	− 19
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	265·7	274·1	17th	253·1	245·2	22nd	259·4	..	−4·5	66	− 18
326	ϕBelle Isle	51 53	55 23	130	986·8	..	..	264·7	272·4	20th	257·7	246·9	13th, 14th	261·2	*261·2*	−4·0	..	..
331	55°—50°N. 30°—25°W.	††53 30	††27 36	§(21)	..	997·6	..	..	..	Sea Temp. 280·9 | −1·6	..	..	..	..	279·7	..	..	..	..
333	53°—48°N. 20°—15°W.	††49 43	††17 26	§(33)	..	1012·3	..	..	..	284·3 | +0·4	..	..	..	..	283·6	..	..	..
333a	62°—57°N. 20°—15°W.	††58 49	††17 15	§(11)	..	..	..	..	..	281·8 | +0·5	..	..	..	..	281·0	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1015·3	+ 2·5	283·4	285·8	27th	278·4	274·7	20th	280·9	281·1	+0·9	135	+ 24
335	Aberdeen	57 10	W 2 6	26·8	..	1018·3	+ 8·8	280·1	283·6	13th	276·2	273·0	21st	278·2	278·3	+1·0	45	+ 12
336	ϕGreenwich	51 28	0 0	46·3	..	1016·9	+ 3·6	283·9	294·7	27th	276·4	270·2	12th	280·2	279·8	+1·3	50	
337	Uccle	50 48	E 4 22	100	1004·9	1017·2	+ 2·6	284·5	294·8	27th	276·6	272·0	19th	280·5	280·2	+2·0	46	− 15
338	De Bilt	52 6	5 11	3·0	1017·7	1018·1	+ 4·9	283·9	294·3	28th	275·6	271·9	19th	279·7	279·5	+2·2	34	− 10
338a	Hamburg	53 33	9 58	40·3	1015·6	1020·6	+ 8·1	282·3	290·9	24th	276·6	272·3	16th	279·5	*278·5*	+2·3	18	− 21
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1022·7	1023·3	+11·0	280·1	287·8	30th	273·4	270·8	11th	276·7	*276·1*	+2·2	15	− 24
340	Potsdam	52 23	13 4	84·9	1009·7	1020·3	+ 7·0	283·0	292·5	23rd, 24th	274·6	271·1	8th	278·8	278·3	+1·8	18	− 20
340a	Uppsala	59 51	17 38	24	1022·8	1025·8	+14·4	277·0	288·6	30th	263·5	257·4	1st	272·7	272·2	+1·5	3	..
341	Warsaw	52 13	21 3	89·9	1010·0	1021·4	+ 6·2	279·8	291·3	25th	273·2	269·6	7th	276·5	276·0	..	5	− 14
342	Tartu (Ülikooli)	58 23	26 43	74·5	1015·2	1024·8	+11·7	274·3	283·9	25th	266·2	254·6	6th	270·3	269·9	+0·1	10	− 22
343	Petrograd	59 56	30 16	4·8	1023·9	1024·5	+11·6	272·1	278·9	20th	263·6	254·4	6th	267·8	*267·7*	−1·1	1	+ 14
344	Kiiv	50 27	30 30	183	998·0	1021·0	+ 5·0	276·8	283·8	29th	271·9	269·0	19th	274·4	*274·0*	+1·5	54	+ 6
344a	Moscow	55 50	37 33	167	1000·7	1022·2	+ 5·1	272·5	278·5	25th	263·6	254·0	13th	268·0	*267·9*	−0·8	25	..
345	Saratov	51 33	45 57	122	1003·8	1019·5	0·0	271·5	275·8	30th	264·4	256·9	14th	268·0	*268·0*	+1·5	3	+ 21
346	Kazan	55 47	49 8	79·9	1006·7	1017·0	− 3·5	271·8	274·9	20th	263·5	257·4	1st	267·6	*267·9*	+1·1	43	+ 1
347	Orenburg	51 45	55 6	109	1004·4	1018·6	− 5·4	..	275·1	31st	260·6	252·5	14th	..	*265·5*	+0·3	13	− 3
348	Perm	58 1	56 16	163	993·4	1014·4	− 5·3	269·0	273·0	15th	260·0	250·7	20th	264·5	*264·7*	−1·2	20	− 22
349	Sverdlovsk	56 50	60 38	281	976·8	1012·6	− 8·6	270·0	276·4	18th, 31st	261·5	250·9	4th	265·8	*265·8*	+0·2	21	+ 1
350	Tobolsk	58 12	68 14	108	997·6	1011·7	− 8·7	269·1	275·1	18th	257·8	248·8	4th	263·4	*263·2*	−0·7	24	+ 1
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	..	273·2	20th	257·5	242·2	6th	..	*263·1*	+1·2	24	+ 1
352	Omsk	55 1	73 19	108	1002·3	1016·4	− 8·4	267·5	274·9	19th	258·3	244·3	6th	262·9	*263·1*	+1·8	2	+ 25
353	Barnaoul	53 20	83 48	162	1001·4	1022·4	− 5·4	269·7	281·5	20th	260·9	242·7	10th	265·3	*265·5*	+2·8	39	+ 4
354	Tomsk	56 30	84 58	122	1000·4	1016·3	− 8·7	..	276·2	20th	259·6	246·7	5th	..	*264·0*	+1·6	64	− 2
355	ϕMinousinsk	53 43	91 41	248	990·4	1022·6	− 5·3	..	281·7	28th	259·9	241·5	11th	..	*266·2*	+3·1	2	+ 2
356	Eniseisk	58 27	92 10	77·6	1004·3	1014·4	− 8·7	..	276·0	21st	257·3	234·1	10th	..	*263·1*	+0·7	13	+ 5
357	Irkutsk	52 16	104 19	467	962·6	1022·6	− 4·7	271·1	280·8	29th	257·0	244·7	8th	264·1	264·2	+1·3	9	+ 5
358	Kirensk	57 47	108 7	263	983·1	1017·1	− 7·0	..	282·5	21st	256·6	237·1	8th	..	*263·7*	+3·8	6	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	967·2	1016·2	− 4·2	267·8	278·0	29th	251·8	236·9	13th	259·8	*260·7*	+1·5	22	+ 17
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	997·0	1015·4	− 3·4	270·8	283·1	31st	258·2	245·1	3rd	264·5	*264·3*	+0·7	13	+ 5
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	998·2	1009·3	+ 2·6	271·3	274·5	2nd	265·9	260·4	18th	268·6	*268·3*	+2·7	70	− 18
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 106 and 107. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. §Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N. **MARCH—ZONE 4.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1013·2	1021·0	+ 6·0	282·4	291·4	29th	276·3	272·4	2nd	279·3	279·2	−0·1	71	+ 9
412	Portland, Oregon	45 32	122 41	46·6	1017·9	1023·3	+ 6·2	286·1	300·8	29th	276·8	270·2	3rd	281·4	*281·2*	+0·5	46	− 76
413	Macleod	49 44	113 24	953	..	..	..	278·1	291·9	29th	267·4	246·9	3rd	272·8	*272·8*	+2·7	22	+ 5
414	Helena	46 34	112 4	1253	872·3	1017·3	+ 0·7	278·9	291·3	31st	268·3	250·3	18th	273·6	*273·4*	+0·7	9	− 11
415	Salt Lake City	40 46	111 54	1329	868·7	1018·9	+ 2·3	280·2	291·9	31st	271·3	262·4	4th	275·8	*276·1*	−2·4	42	− 10
416	Cheyenne	41 8	104 48	1856	809·4	1017·3	+ 0·2	276·6	289·7	1st	265·1	253·6	18th	270·9	*271·0*	−2·6	38	+ 15
416a	North Platte	41 8	100 45	860	916·8	1018·6	+ 0·9	282·2	296·9	1st	266·2	254·1	18th	274·2	*274·0*	−1·0	10	− 11
417	Bismarck	46 47	100 38	510	956·6	1019·6	+ 0·8	273·1	285·2	1st	261·1	246·3	18th	267·1	*267·3*	−1·4	7	− 19
418	Winnipeg	49 53	97 7	232	989·9	1020·7	+ 1·6	265·2	280·2	1st	252·4	240·2	18th	258·8	*258·3*	−4·8	33	+ 4
419	Duluth	46 47	92 6	345	974·1	1017·6	− 0·3	267·8	281·9	1st	257·6	246·9	19th	262·7	*262·6*	−6·0	33	− 7
420	Port Arthur	48 27	89 12	196	992·5	1018·1	+ 0·7	266·9	276·3	1st, 2nd	256·3	246·3	19th	261·6	*261·6*	−4·0	21	− 1
421	Chicago	41 53	87 37	251	986·0	1016·9	− 0·5	278·2	291·3	2nd	268·9	255·2	19th	273·6	*273·2*	−2·0	77	+ 11
422	Toronto	43 40	79 24	116	1001·3	1016·1	− 1·2	274·7	282·7	21st	265·3	257·1	31st	270·0	269·7	−1·7	79	+ 18
423	ϕNew York (Central Park)	40 47	73 58	47·4	1011·1	1017·1	+ 0·6	280·4	297·4	23rd	270·9	260·8	29th	275·7	275·4	−0·8	106	+ 8
424	St. John, N.B.	45 17	66 4	36·2	1008·0	1012·7	− 1·4	271·3	279·9	23rd	262·4	250·4	29th	266·8	266·6	−4·2	125	+ 10
424a	S.W. Point, Anticosti	49 24	63 33	9·1	1008·1	1009·3	− 1·6	266·0	274·1	17th	259·3	253·0	29th	262·7	*262·9*	−4·2	72	+ 26
425	Sable Island (Main Station)	43 57	60 6	7·6	1009·3	1010·3	− 4·0	273·0	278·6	19th	267·4	259·7	29th	270·2	*270·2*	−2·8	54	− 57
426	Port aux Basques	47 35	59 10	9·1	1007·0	1008·2	− 2·6	268·4	274·1	16th	260·7	251·6	29th	264·6	*264·4*	−4·0	175	+ 56
	St. John's, Newfoundland	47 34	52 42	48·8	997·9	1004·1	− 6·2	270·8	281·9	20th	263·0	252·4	15th	266·9	*267·2*	−3·7	147	+ 30
430	50°—45°N. 35°—30°W.	††46 50	††32 40	§(51)	..	1006·8	..	..	..	Sea Temp. 284·5|−0·8	..	..	..	..	282·3	..	..	..
435	Madrid	40 24	3 41	667	939·6	1017·8	+ 0·7	288·2	292·0	18th	278·4	273·0	6th	283·3	*282·7*	+1·4	68	+ 36
436	Nantes	47 15	W 1 34	36·5	1011·9	1016·6	+ 1·7	285·5	292·2	26th	278·3	273·0	12th	281·9	281·8	+1·6	109	+ 46
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1011·0	1017·5	+ 2·5	285·6	294·6	26th	276·9	271·8	13th	281·3	280·9	+1·6	55	+ 17
438	Marseille	43 18	5 23	75	..	1015·4	+ 1·9	288·8	292·8	25th	278·3	271·3	15th	283·5	*283·0*	0·0	5	− 42
439	Zürich	47 23	8 33	493	958·7	1018·1	+ 2·3	282·9	292·6	27th	274·5	270·1	20th	278·7	278·2	+1·0	40	− 35
440	Rome	41 54	12 27	45·5	1008·8	1014·2	+ 1·0	288·6	292·8	29th	279·0	276·3	12th	283·8	*283·5*	−0·1	42	− 31
440a	Vienna	48 15	16 22	203	993·2	1018·1	+ 3·3	282·0	290·3	24th	275·0	271·5	20th	278·5	278·5	+1·2	69	+ 22
441	Budapest	47 31	19 2	130	1000·7	1016·7	+ 1·6	285·2	294·6	26th	275·6	271·8	20th	280·4	280·0	+2·1	38	− 8
442	ϕSofia	42 42	23 20	550	950·4	1016·1	− 1·6	283·6	291·8	28th	274·7	269·6	20th	279·1	*278·9*	+0·8	50	+ 8
443	Bucharest	44 25	26 6	82	1006·9	1017·0	+ 1·0	283·2	290·1	26th	275·4	271·5	18th	279·3	279·0	+1·0	70	+ 28
443a	Odessa (Observatory)	46 26	30 46	42·8	1013·0	1018·3	+ 1·6	278·4	283·3	30th	274·0	270·4	31st	276·2	*275·9*	+0·3	18	− 9
443b	Kharkiv (University)	50 0	36 14	140	1003·6	1021·2	+ 3·5	275·3	281·2	26th	270·2	265·8	12th	272·8	*272·7*	+1·1	19	− 16
444	Novorossiisk	44 44	37 49	37·1	1013·9	1018·5	+ 1·9	283·7	293·3	13th	276·6	269·7	26th, 31st	280·2	*279·9*	+0·8	21	− 31
445	ϕTiflis	41 43	44 48	404	970·6	1019·2	+ 0·5	284·7	292·8	8th	276·1	271·1	30th	280·4	*279·9*	+0·2	22	− 7
447	Astrakhan	46 21	48 2	— 20	1022·1	1019·6	− 0·9	278·6	284·0	30th	270·2	265·2	12th	274·4	*274·6*	+1·2	3	− 8
448	Fort Alexandrovsk	44 31	50 7	— 23·0	1022·8	1020·0	+ 0·2	278·5	285·0	7th	272·8	268·1	13th	275·6	*275·6*	+0·2	3	− 7
448a	ϕKrasnovodsk	40 0	52 59	— 4·6	1019·6	1019·0	+ 0·6	285·0	291·6	3rd	278·3	274·3	28th	281·6	*281·4*	−0·2	13	− 6
449	Kasalinsk	45 46	62 7	66·7	1013·2	1021·7	− 0·7	..	..	..	268·8	262·2	6th	..	*272·9*	+2·8	14	+ 1
450	Tashkent	41 20	69 18	478	963·0	1020·1	− 0·2	287·3	295·9	20th	277·1	268·7	14th	282·2	*281·6*	+0·9	145	+ 82
451	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	922·2	1022·7	− 0·6	279·7	290·4	19th	270·3	260·7	15th	275·0	*274·8*	+1·5	123	+ 68
461	ϕMoukden	41 48	123 23	43·8	1015·5	1021·0	− 0·1	280·0	291·2	26th	268·4	257·8	3rd	274·2	274·0	+2·3	58	+ 39
462	Joshin	40 40	129 11	31·9	1016·2	1020·2	+ 2·2	279·4	289·6	26th	271·0	263·7	13th	275·2	274·9	+1·3	56	+ 34
463	Yuki	42 20	130 24	65·6	1011·3	1019·6	+ 1·8	277·7	285·5	24th	268·5	260·4	1st	273·1	273·1	+1·6	42	+ 19
464	Vladivostok	43 7	131 53	128	1003·4	1019·7	+ 1·4	274·6	283·8	25th	268·3	259·3	5th	271·4	*271·6*	+1·4	71	+ 55
465	Ochiai	47 20	142 47	27·4	1011·6	1015·1	+ 2·3	272·9	278·9	27th	261·7	248·0	4th	267·3	268·0	+2·7	25	− 7
466	Nemuro	43 20	145 35	26·7	1014·1	1017·5	+ 4·0	275·2	284·5	25th	267·2	258·7	5th	271·2	271·3	+0·8	39	− 16
466a	ϕSyana	45 14	147 53	39·3	1011·5	1016·6	+ 4·3	272·6	282·4	28th	265·2	256·0	8th	268·9	269·1	+0·6	40	− 23
		N.	E.															

Between Latitude 40° N. and 30° N. MARCH—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
501	35°—30°N. 145°—140°W.	††30 48	††141 38	§(9)	..	1024·7	+ 1·4	..	..	Sea Temp. 291·3|+2·2	..	..	..	..	289·7	+1·1	..	..
502	San Francisco	37 48	122 26	47·2	1014·2	1020·0	+ 1·8	291·3	301·9	27th	282·2	279·7	5th	286·8	*284·9*	+2·2	1	− 79
	San Luis Obispo	35 18	120 39	61·3	1011·9	1019·3	+ 1·1	294·2	303·6	26th	278·2	274·1	9th	286·2	*285·3*	+1·0	10	− 80
503	San Diego	32 43	117 10	26·5	1013·9	1016·9	+ 0·2	292·7	300·8	26th	282·7	277·4	5th	287·7	*287·1*	+1·1	9	− 29
504	Modena	37 48	113 54	1670	833·2	1017·3	+ 1·3	282·7	291·3	30th	266·4	251·3	5th	274·6	*274·3*	−2·1	23	− 8
505	Santa Fé	35 41	105 57	2138	784·1	1014·9	− 0·5	280·4	286·9	25th	268·4	258·6	22nd	274·4	*274·7*	−2·7	33	+ 13
506	Denver	39 45	105 0	1613	834·7	1016·6	+ 0·4	280·3	293·0	31st	267·8	255·2	18th	274·1	*274·2*	−2·7	55	+ 31
507	Abilene	32 23	99 40	530	955·5	1017·6	+ 1·4	290·4	299·1	21st	276·9	263·0	19th	283·7	*282·9*	−2·5	59	+ 30
508	Saint Louis	38 38	90 12	173	996·7	1017·6	+ 0·3	284·2	298·0	2nd	272·3	257·4	19th	278·2	*277·9*	−1·6	108	+ 19
509	Mobile	30 41	88 2	17·4	1017·4	1019·3	+ 1·2	292·7	299·1	23rd	283·1	271·9	20th	287·9	*287·6*	−0·5	155	− 9
510	Nashville	36 10	86 47	166	999·8	1020·0	+ 1·5	287·9	296·3	3rd	275·5	262·4	19th	281·7	*281·8*	−1·0	195	+ 65
511	Charleston	32 47	79 56	14·6	1017·8	1019·6	+ 1·0	292·5	301·9	5th	284·1	273·6	20th	288·3	*288·5*	+1·1	60	− 26
512	Washington	38 54	77 3	34·1	1013·7	1017·9	+ 0·2	286·8	299·7	4th	274·0	265·2	29th	280·4	*279·9*	+1·3	114	+ 17
520	Bermuda	32 17	64 46	46·0	1015·2	1020·7	+ 3·2	293·8	295·9	23rd, 31st	286·9	281·7	2nd	290·3	*290·3*	0·0	120	− 2
521	Santa Cruz (Flores)	39 27	31 9	40	1012·6	1017·5	− 4·7	289·7	293·1	10th	284·1	278·7	18th	286·9	*286·9*	−0·1	166	+ 12
522	ϕHorta	38 32	28 38	65	1010·3	1018·1	− 2·9	280·1	291·4	6th	284·7	278·7	17th	286·9	286·9	−0·5	97	+ 8
522a	Ponta Delgada	37 44	25 40	22	1015·9	1018·4	− 2·8	289·5	291·2	4th	285·6	281·8	24th	287·6	287·6	+0·5	..	..
523	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	..	..
524	Madeira (Funchal)	32 38	16 55	25	‡1014·9	‡1017·9	− 1·0	293·2	301·0	9th	287·4	285·4	19th	290·3	*290·4*	+2·0	126	+ 34
525	Lisbon	38 43	9 9	95	1006·2	1017·7	+ 1·3	290·5	294·4	31st	283·8	281·8	16th	287·2	286·7	+1·3	118	+ 31
525a	Melilla	35 17	2 59	40	1012·9	1017·7	+ 1·2	293·7	296·6	21st	282·2	279·4	5th	288·0	*289·8*	+1·2	19	− 68
526	Gibraltar	36 6	5 21	16·2	..	1017·3	+ 0·2	290·8	295·2	8th, 9th	284·2	281·3	5th, 6th	287·5	*287·3*	+0·3	8	− 54
526a	Colomb-Béchar	31 36	2 4	769	927·4	1014·8	..	295·7	300·0	10th, 11th	281·9	276·0	7th, 8th	288·8	*288·1*	..	38	− 84
		N.	W.														15	..
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108.
†† Mean latitude and longitude of the observations. §Number of observations. ϕ Change of normals *see* pages 107 and 108.

MARCH—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1013·0	1015·8	+ 0·2	288·8	292·0	7th	281·2	274·6	13th	285·0	..	−0·7	80	+ 41
538	Algiers (Bouzaréah)	36 47	3 2	344	975·3	1016·2	+ 0·7	287·5	294·4	19th	282·0	277·7	14th	284·7	*284·5*	+0·1	67	+ 17
539	ϕTunis	36 48	10 10	21	1012·1	1014·6	..	289·3	292·3	29th	281·4	278·3	14th	285·4	*284·8*	−0·6	54	+ 5
539a	Malta	35 53	14 30	56·4	..	1015·1	+ 1·2	288·3	291·9	29th	284·1	282·4	4, 6, 13	286·2	*285·4*	−0·7	23	— 26
540	Riposto	37 41	15 14	14·2	..	1016·6	+ 0·3	287·8	288·8	1, 18, 30	281·9	280·5	12th	284·9	*284·6*	−1·3	28	— 13
541	Athens	37 58	23 43	107	1001·3	1014·2	— 0·1	288·8	292·2	29th	281·3	276·9	21st	285·1	285·2	+0·8	1	— 15
542	ϕAlexandria	31 12	29 53	32·0	1011·9	1015·6	+ 0·2	295·0	304·9	13th	285·2	282·7	4th, 5th	290·1	*289·4*	+0·3		
543	Nicosia (P.W.D.)	35 9	33 22	159	995·1	1014·2	— 0·3	291·3	295·8	30th	279·9	275·2	22nd, 23rd	285·6	..	0·0	38	— 4
544	Beirut	33 54	35 28	33·7	..	1014·6	— 0·3	291·9	301·8	14th	285·4	281·7	3rd	288·7	*288·5*	+0·2	128	+ 30
545	Hinaidi	33 17	44 29	32·3	..	1015·5	+ 0·8	295·1	300·3	15th	282·8	276·4	27th	288·9	*287·7*	..	4	— 20
546	Lenkoran	38 46	48 52	—20·0	1022·1	1019·7	+ 0·8	..	285·4	10th	278·3	273·1	29th	..	*280·9*	+0·5	101	+ 11
547	Tehran	35 41	51 25	1220	..	..	..	288·8	293·0	18th	278·6	273·6	5th	283·7	*283·9*	+1·5	61	+ 35
548	Meshed	36 16	59 35	946	880·1	..	..	287·7	298·2	21st	275·6	269·9	15th	281·7	..	+0·9	92	— 1
549	Seistan	31 0	61 30	610	..	..	..	297·1	308·0	27th	282·2	275·1	16th	289·6	..	..	7	— 17
550	Quetta	30 11	67 3	1677	835·4	..	+ 1·8	292·0	301·9	28th	277·4	272·1	17th	284·7	*284·9*	+1·1	31	+ 8
551	Peshawar	34 2	71 37	339	977·2	1017·2	+ 1·6	296·7	306·0	27th	284·1	278·6	1st	290·4	*290·0*	0·0	49	— 11
551a	Lahore	31 34	74 20	214	989·2	1014·3	+ 1·6	300·8	311·1	29th	286·8	282·7	1st	293·8	*293·7*	+0·2	11	— 44
552	Simla	31 7	77 8	2204	783·5	..	+ 2·7	287·3	294·8	30th	280·9	274·6	2nd	284·1	*284·3*	+1·0	24	— 7
552a	Leh	34 10	77 42	3503	668·4	..	+ 3·6	277·6	289·7	30th	265·7	257·3	1st	271·7	*271·0*	−1·6	0	— 17
559	Hankow	30 35	114 17	37·0	1015·9	1020·4	— 1·2	290·9	303·0	27th	281·8	276·0	9th	286·3	*286·2*	+3·0	79	+ 9
560	ϕTientsin	39 10	117 10	5·0	1020·9	1021·5	— 0·7	285·3	295·0	23rd	274·1	265·7	3rd	279·7	*279·4*	+1·7	20	— 4
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1022·0	+ 0·8	289·1	299·5	27th	278·5	272·2	1st	283·8	282·8	+2·0	86	+ 20
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1014·5	1023·0	+ 2·4	281·5	289·3	25th	273·5	264·5	13th	277·5	276·9	+1·1	49	+ 24
562a	Nagasaki	32 44	129 52	133	1005·2	1021·3	+ 2·4	288·3	295·6	28th	279·6	273·7	4th	284·0	283·9	+1·8	150	+ 52
563	Kyoto	35 1	135 44	42·9	1016·7	1022·0	+ 4·2	288·1	298·0	28th	275·4	267·0	1st	281·7	281·1	+1·9	135	— 4
564	Tokyo	35 41	139 46	5·8	1020·4	1021·1	+ 4·7	289·1	294·0	18th, 28th	276·2	268·9	1st	281·1	280·9	+1·0	108	— 34
565	Kanayama	37 53	140 46	24·6	1017·7	1020·7	+ 4·5	282·8	298·6	28th	271·9	266·2	1st	277·3	276·9	+0·2	59	— 66
566	Miyako	39 38	141 59	30·4	1016·1	1019·9	+ 4·3	282·7	297·2	28th	271·1	263·4	1st	276·9	276·3	+0·7	22	— 71

MARCH—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1018·9	+ 0·2	294·6	299·1	7th	287·9	285·8	10th	291·2	*290·7*	..	89	+ 66
605	Honolulu	21 19	157 52	11·6	1013·7	1015·0	— 2·3	297·3	301·3	..	292·4	290·2	..	294·9	*294·7*	+0·1	162	+ 54
614	La Paz	24 10	110 20	12	1012·2	1013·6	..	299·4	304·8	9th	281·6	274·8	21st	290·5	..	..	2	— 24
615	Chihuahua	28 38	106 4	1423	858·4	1013·6	..	293·9	301·5	9th	278·6	270·5	20th	286·3	*287·3*	−2·2	31	+ 5
616	ϕLeon	21 7	101 41	1809	822·8	1012·0	+ 1·6	300·6	306·4	7th, 9th	281·2	276·0	4th, 5th	290·9	*291·5*	+0·2	9	+ 5
616a	ϕMonterry	25 40	100 18	528	955·4	1016·3	+ 2·7	295·7	307·5	15th	283·7	276·9	20th	289·7	*289·1*	−3·2	49	+ 40
617	Tulancingo	20 5	98 22	2181	789·6	..	..	296·4	302·0	11th, 12th	281·2	275·0	20th	288·8	*287·3*	−0·8	30	+ 4
618	Galveston	29 18	94 50	16·5	1016·5	1018·6	+ 1·3	291·2	299·1	12th	285·4	271·9	19th	288·3	*288·4*	−1·5	115	+ 58
618a	ϕNew Orleans	29 57	90 4	16·2	..	1018·9	+ 1·7	294·2	300·8	4th	284·7	273·6	20th	289·4	*289·1*	−0·8	116	+ 58
619	Merida, Yuc.	20 58	89 38	22	1012·5	1015·0	— 0·5	304·2	306·8	13th	293·7	291·6	5th, 6th	298·9	*298·3*	+0·4	15	— 17
620	Havana	23 8	82 21	24·3	..	1018·4	+ 1·1	301·5	303·4	13th	293·6	290·8	3rd	297·6	*297·3*	+1·3	5	— 15
620a	Key West	24 33	81 48	6·7	1017·5	1018·3	+ 0·4	300·3	302·4	13th	294·8	290·2	1st	297·6	*296·9*	+1·9	10	+ 1
621	Nassau, Bahamas	25 5	77 21	7·3	..	..	..	..	..	..	..	..	..	..	‡*296·3*	−0·1	58	+ 30
622	Watling Island	24 6	74 26	33·5	1015·7	1019·6	+ 2·8	..	301	28th, 29th	..	293	2nd	..	*297·7*	..	..	..
633	Izaña	28 19	16 30	2367	764·1	..	..	282·5	289·4	1st	274·6	267·0	18th	278·5	*278·5*	+1·5	51	..
634	La Laguna	28 28	W16 20	547	952·3	1016·0	— 0·4	291·1	297·8	8th	282·5	279·1	2nd	286·8	*286·2*	+0·2	53	..
641	Siwa	29 12	E25 29	—23	1018·2	1015·4	..	297·5	308·0	17th	280·4	276·2	4th	289·0	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	1001·6	1015·4	+ 0·2	296·0	303·8	13th	283·5	279·7	2nd	289·7	*289·6*	−0·5	0	..
643a	Aswan	24 2	32 53	99·6	1001·6	1013·2	— 0·6	303·8	311·0	18th, 19th	286·6	282·2	3rd	295·2	*294·4*	+0·5	..	..
644	Tor	28 14	33 37	1·9	1013·1	1013·2	— 0·5	296·9	303·6	19th	284·4	280·0	9th	290·6	*290·6*	−0·5	0	..
647	Bushire	28 59	50 53	4·3	1014·4	1015·0	+ 0·3	296·7	304·3	21st	289·8	283·9	6th	293·3	*292·7*	+1·7	36	+ 11
648	Jask	25 44	57 47	4·0	1014·1	1014·5	+ 0·8	301·3	306·2	28th	293·4	289·8	8th, 9th	297·3	*296·7*	+1·5	0	— 8
649	Karachi	24 53	66 57	4·0	1014·0	1014·4	+ 1·2	301·3	305·2	25th	292·8	290·3	2nd	297·1	*296·5*	+0·6	0	— 8
650	Jacobabad	28 17	68 29	56·7	1008·0	1014·6	+ 2·2	304·3	310·5	30th	289·1	279·8	11th	296·7	*296·2*	−0·3	0	— 8
651	Jaipur	26 56	75 52	436	965·5	1014·7	+ 2·1	306·0	313·7	28th, 29th	289·7	282·4	10th	297·8	*297·8*	+1·0	0	— 8
652	Nagpur	21 8	79 5	310	979·2	1014·2	+ 2·1	307·1	313·2	31st	292·9	288·4	1st	300·0	*299·6*	−1·0	44	— 1
653	Allahabad	25 25	81 51	94·2	1003·6	1014·0	+ 2·5	307·1	314·6	31st	289·7	283·9	1st	298·4	*298·0*	+0·5	0	— 8
653a	Darjeeling	27 3	88 18	2265	778·4	..	+ 2·7	287·7	292·1	28th	279·8	274·3	5th	283·8	*284·0*	+1·3	30	+ 19
654	Calcutta	22 36	88 23	6·4	1013·1	1013·9	+ 2·2	305·4	309·1	18th	292·9	287·1	1st	299·1	*298·8*	−0·5	29	— 1
655	Gauhati	26 8	91 41	59·7	1007·9	1014·8	+ 2·0	304·9	311·2	31st	288·4	283·2	1st, 24th	296·7	*295·8*	+1·3	0	— 8
655m	Cherrapunji	25 15	91 42	1313	871·3	..	+ 1·9	294·6	299·3	30th	287·0	281·7	1st	290·8	*290·1*	+1·7	50	+ 42
655a	Akyab	20 11	92 56	6·1	1012·7	1013·4	+ 0·9	303·8	305·3	14th	291·8	287·2	6th	297·8	*297·9*	−1·0	0	— 8
656	Mandalay	21 59	96 0	76·2	1004·5	1013·0	+ 1·5	310·4	313·0	28th	293·2	287·3	4th	301·8	*301·4*	+0·5	10	+ 2
656a	Tengyueh	25 2	98 33	1626	836·4	1011·4	+ 0·9	295·0	299·1	30th	278·2	273·6	3rd	286·6	*286·2*	+0·5	9	— 2
657	ϕPhu Lien	20 48	106 38	116	1002·3	1015·9	+ 1·7	298·3	305·0	29th	290·9	286·4	21st	294·6	293·6	+1·6	11	— 23
658	ϕMoncay	21 31	107 51	9·0	1015·3	1016·4	+ 1·6	296·5	303·7	29th	289·7	283·4	1st	293·1	*293·7*	+1·2	38	+ 2
659	ϕHongkong	22 18	114 10	33·2	..	1017·4	+ 1·5	294·3	300·9	28th	289·4	285·8	1st	291·9	291·4	+1·2	17	— 17
660	ϕAmoy	24 27	118 4	ca.3	1017·5	1017·9	— 0·1	292·7	296·9	11th, 29th	286·4	281·3	1st	289·6	*289·4*	+1·3	52	— 17
661	Taihoku, Formosa	25 2	121 31	9·3	1017·8	1018·9	+ 1·3	296·6	302·0	11th, 26th	287·5	283·8	2nd	292·1	291·5	+1·6	44	— 8
661a	Basco	20 28	121 59	18·7	..	1014·4	+ 1·2	298·2	302·4	17th	293·4	290·1	1st	295·8	*295·8*	−1·2	82	+ 30
662	ϕNaha	26 13	127 41	10·5	1018·2	1019·4	+ 2·0	295·7	300·1	19th	287·7	279·0	1st	291·7	291·6	+0·7	81	— 1
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1018·4	1018·9	+ 2·1	294·5	297·4	21st	289·0	282·2	3rd	291·7	291·7	+0·2	139	+ 79
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109.
ϕ Change of normals *see* pages 109 and 110.

MARCH—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	954·7	1010·5	..	307·7	310·2	25th	288·0	283·9	15th	297·9	*295·9*	+0·2	0	..
716	Morelia	19 42	101 7	1923	810·3	1010·7	..	296·7	300·0	sev. dates	283·8	281·4	20th, 27th	290·3	*289·9*	−0·3	55	..
717	Mexico, Tacubaya	19 24	99 12	2309	774·7	..	+ 0·2	298·3	302·0	11th	280·2	275·7	20th	289·3	288·6	+0·3	8	— 2
718	ϕSalina Cruz	16 12	95 12	56	1004·8	1011·2	— 1·7	303·3	307·4	23rd	295·8	291·2	20th, 21st	299·5	*299·4*	+0·1	0	— 15
719	ϕSan Salvador	13 42	89 12	682	937·1	1012·5	+ 0·1	306·9	308·8	27th	288·8	285·8	20th	297·9	*296·6*	−0·1	5	— 8
720	Belize	17 29	88 12	5·2	1012·9	1013·5	— 1·6	302·0	303·6	10th, 15th	296·7	295·2	11th, 24th	299·3	*298·9*	+0·3	15	— 18
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1015·6	+ 1·0	303·0	304·4	6th	292·7	290·7	5th	297·9	*297·5*	+0·3	54	— 12
722	Port au Prince	18 33	72 20	37·4	1012·3	1016·6	+ 1·0	305·2	307·9	26th	294·1	292·3	5th	299·7	*298·9*	+0·5	29	— 65
723	Caracas	10 30	66 56	1042	900·3	1015·4	+ 1·2	298·3	301·0	8th	287·0	281·9	2nd	292·6	*291·1*	−0·7	6	— 9
724a	Montserrat	16 41	62 9	39·6	1012·1	1016·7	+ 0·3	301·6	304·7	2, 4, 9	293·8	289·7	3rd	297·7	*297·2*	−0·6	110	+ 7
725	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡996·5	‡1014·5	+ 1·0	301·3	303·0	3rd, 27th	294·9	293·6	6, 11, 23	298·1	*297·6*	−0·3	40	— 29
725	Barbados	13 8	59 36	55·2	..	1015·2	+ 0·3	301·4	302·6	29th	294·2	290·8	3rd	297·8	*296·9*	−0·5	24	— 25
731	São Vicente, C. Verde Is.	16 54	25 4	11	1012·9	1014·2	— 0·4	296·5	298·0	19th	290·5	288·5	18th	293·5	*294·6*	+0·2	0	— 1
732	San Tiago, C. Verde Is.	14 54	23 31	34	1009·8	1013·8	— 0·8	298·6	303·0	3rd	293·1	292·0	6, 8, 17	295·8	*295·9*	+0·4	0	— 2
733	Bathurst	13 27	16 34	1·8	1013·7	1014·0	+ 0·5	301·6	310·8	4th	290·8	287·4	12th	296·2	*295·8*	−1·1	0	— 8
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	312·0	315·2	22nd	293·4	290·2	1, 6, 8	302·7	..	0·0	0	— 8
735	Niénébalé	12 57	7 26	300	..	..	..	312·1	314·8	20th	292·9	287·0	13th	302·5	..	..	0	— 8
736	Timbuktu	16 43	W 3 2	270	..	..	..	311·0	316·0	24th	292·4	287·8	9th	301·7	*301·5*	+0·6	0	— 8
737	ϕSokoto	13 2	E 5 14	353	..	..	..	312·9	316·3	19th	293·7	289·1	11th	303·3	*303·1*	+0·1	0	— 8
738	Kaduna Capital	10 32	7 25	637	942·2	1011·9	— 0·6	308·0	310·8	16th, 21st	292·8	287·4	2nd	300·4	*300·1*	−0·2	15	+ 10
740	Hadeija	12 40	10 5	?	..	..	..	312·3	315·8	20th, 22nd	291·8	288·6	2, 4, 8	302·1	*301·8*	+0·5	0	— 8
741	ϕMaiduguri	11 47	13 11	361	..	..	..	314·0	318·0	18th, 25th	292·9	288·6	2nd, 5th	303·5	*303·2*	+0·9	4	+ 4
741	El Fasher	13 32	25 18	730	..	..	..	308·6	314·9	31st	287·0	281·1	4th, 8th	297·8	*296·6*	..	0	..
743	El Obeid	13 11	30 14	569	945·6	1009·0	— 0·7	309·8	314·3	31st	290·7	284·4	3rd	300·2	*299·9*	+2·5	0	— 8
743a	ϕKhartoum	15 37	32 33	390	964·4	1007·5	— 1·7	309·1	315·6	31st	292·2	285·9	1st	300·7	*300·8*	+0·6	0	— 8
744	Port Sudan	19 37	37 13	5·5	1010·3	1011·0	— 1·0	301·9	304·1	14th	292·8	289·4	6th	297·4	*297·0*	+0·3	0	— 8
745	Berbera, Somaliland	10 22	45 2	9·5	1012·4	1013·4	— 0·1	303·5	305·8	10th	295·8	294·1	2, 18, 19	299·7	*299·7*	+0·5	0	— 23
746	Aden	12 45	45 3	28·7	1010·5	1013·8	+ 0·5	300·8	304·0	30th	297·1	295·4	5th	298·9	*298·2*	−0·5	0	— 12
751	Bombay	18 54	72 49	11·3	1012·1	1013·4	+ 0·6	304·1	308·6	13th	296·9	294·7	4th	300·5	299·8	+1·1	0	— 2
752a	Kodaikanal	10 14	77 28	2343	772·1	..	— 0·1	292·5	295·9	31st	282·2	279·9	6th	287·3	*286·4*	−0·8	96	+ 45
753	Bangalore	12 59	77 38	921	912·6	1013·0	+ 0·8	304·5	308·3	30th	291·5	289·4	12th	298·0	*297·5*	−0·3	51	+ 38
754	Madras	13 4	80 14	6·7	1013·0	1013·9	+ 1·3	304·4	306·4	31st	295·9	293·4	10th	300·2	*299·3*	−0·1	16	+ 11
	Vizagapatam	17 42	83 19	11·6	1013·0	1014·4	+ 2·1	303·3	306·3	16th	296·2	292·5	3rd	299·7	*298·8*	−1·1	12	+ 4
755	Port Blair	11 40	92 40	18·0	1010·0	1012·0	— 0·2	304·0	305·9	29th	297·4	295·4	5th, 6th	300·7	*299·8*	−0·6	24	+ 5
756	Rangoon	16 46	95 48	5·5	1012·6	1013·3	+ 1·1	308·2	310·2	9th	295·4	293·2	3rd	301·8	300·8	+0·3	5	— 5
757	Saigon (Cap St. Jacques)	10 20	107 5	180	991·4	1012·0	+ 1·7	302·1	305·4	17th	295·8	293·6	3rd, 5th	298·9	*298·4*	−0·7	0	— 5
758	Nhatrang	12 15	109 12	3·6	1013·0	1013·4	+ 1·3	302·2	304·2	20th	294·3	291·7	3rd	298·3	*297·8*	−0·6	266	+204
759	Bolinao	16 23	119 53	7·1	..	1010·0	— 0·8	305·5	308·0	18th	293·7	?290·8	4th	299·6	*299·2*	−1·0	0	— 15
761	Vigan	17 34	120 23	12·2	..	1011·4	0·0	304·4	306·5	31st	295·7	294·0	3rd, 30th	300·1	299·7	−0·1	0	— 8
762a	Manila	14 35	120 59	14·2	..	1012·0	+ 0·7	304·5	305·8	14th	293·8	290·5	3rd	299·1	298·4	−1·2	84	+ 63
763	ϕOrmoc	11 0	124 36	5·6	..	1009·9	— 0·1	304·7	306·0	7th	294·0	290·9	28th, 29th	299·3	*299·0*	+0·3	122	+ 23
765	Guam, Ladrone Is.	13 24	144 38	**	..	1006·3	— 3·6	302·1	305·1	24th	297·2	295·7	30th	299·7	*299·5*	−0·1	298	+218
		N.	E.															

Between Latitude 10° N. and 0°.

MARCH—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
821	Fanning Island	3 54	159 23	5·3	1009·4	1010·0	..	304·6	307·0	24th	298·1	297·1	7th	301·3	*300·8*	+0·7	14	—306
822	Colon	9 23	79 23	11·0	..	1011·7	— 0·5	302·7	303·6	17th	297·8	296·3	23rd	300·2	*299·8*	+0·4	9	— 31
822a	Bogota	4 36	74 5	2645	743·9	..	..	292·2	294·9	10th	283·0	281·0	5th	287·6	*287·1*	..	50	— 53
823	Merida, Venez.	8 36	71 9	1641	‡842·1	..	+ 0·3	296·5	299·6	29th	287·5	285·0	4th, 7th	292·0	*290·9*	−0·2	58	— 35
824	Ciudad Bolivar	8 9	63 33	38	1007·6	1011·9	..	305·3	307·4	25th	295·1	293·3	2nd	300·2	*299·5*	..	3	— 2
825	ϕEl Peru, Guayanavieja	7 19	61 49	220	985·6	1010·7	— 0·3	302·2	302·5	31st	291·2	287·2	31st	296·7	*296·0*	−1·4	52	+ 3
826	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1014·6	+ 1·8	301·7	302·4	21, 24, 29	296·8	294·7	7th	299·3	*298·9*	−0·3	49	—133
827	Paramaribo	5 49	55 9	3·7	‡1013·7	‡1014·1	+ 1·2	302·1	303·9	21st	295·1	291·1	11th	298·6	*298·4*	+0·1	106	—102
828	Cayenne	4 56	52 21	6	..	..	..	..	..	..	..	..	..	..	..	..	445	+ 43
831	10°—5°N. 30°—25°W.	†† 7 36	†† 27 48	§(66–68)	..	1013·2	+ 1·3	..	..	Sea Temp. 298·0	..	..	..	..	..	−0·7	..	..
832	Konakri	9 31	13 43	16	..	..	..	304·9	306·8	2nd	296·7	295·1	9th	300·8	*300·3*	−0·7	0	— 5
833	Freetown, Sierra Leone	8 29	13 9	68·3	1002·9	1010·8	+ 0·1	304·9	307·4	21st	297·2	295·8	24th	301·1	*300·1*	+0·1	16	— 13
834	Assuantsi	5 18	1 15	101	..	..	..	303·6	305·2	26th	294·8	291·3	10th	299·2	*298·6*	..	119	+ 19
835	ϕAccra	5 33	W 0 12	27·0	1005·8	1008·8	..	304·2	305·2	14, 15, 20	297·0	295·2	3, 10, 27	300·6	*300·1*	+0·2	19	— 29
836	Lagos	6 27	E 3 24	4·6	1008·4	1009·0	+ 0·1	304·6	305·5	12th	297·9	294·9	14th	301·3	*300·7*	−0·3	66	— 29
837	Zungeru	9 48	6 10	130	..	..	..	311·0	312·4	11, 18, 31	296·6	292·4	2nd	303·8	*303·5*	+0·5	19	+ 5
839	ϕYola	9 12	12 30	259	..	..	..	311·7	315·2	16th	..	..	..	..	‡*303·6*	−0·3	1	— 8
841	Wau	7 42	28 3	440	..	..	..	310·2	314·5	20th	294·9	290·0	2nd	302·6	*301·2*	−0·2	41	+ 19
843	Malakal (Kodok)	9 35	31 37	394	..	..	..	311·8	315·3	21st	295·9	290·6	8th	303·8	..	+0·5	12	+ 6
843a	Mongalla	5 11	31 47	439	957·1	1005·1	— 0·5	310·5	314·0	sev. dates	..	..	..	..	..	..	89	+ 50
844	ϕEntebbe	0 5	32 29	1171	883·6	1009·2	+ 0·5	300·1

MARCH—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
924	ϕManaos	3 8	60 1	43·8	..	..	..	302·2	305·6	1st, 7th	295·8	294·4	19th	299·0	..	..	247	− 14
926	Taperinha	2 30	54 20	20·0	1008·5	1010·9	− 0·3	302·4	303·9	25th	295·5	294·1	7th	299·0	*298·0*	+0·2	414	+112
927	ϕTuryassu	1 43	45 26	9·1	1008·5	1009·7	− 1·1	303·7	305·4	25th	294·9	293·2	13th	299·3	*298·3*	−0·1	250	− 54
928	ϕBarra do Corda	5 30	45 16	81·0	999·5	1008·9	− 1·0	304·1	305·5	10th	294·8	293·8	27th	299·4	*298·4*	+0·4	115	− 33
929	Quixeramobim	5 16	39 15	207	989·0	1012·5	+ 1·0	304·7	306·8	31st	294·9	292·7	8th	299·8	*299·6*	−0·4	113	− 70
930	ϕFernando Noronha	3 50	32 25	106	998·9	1010·8	− 0·8	300·8	301·9	8th	297·5	295·5	16th	299·2	*299·0*	+0·1	120	− 14
934	Ascension Island	7 56	W14 25	16·8	1009·9	1011·7	− 1·3	304·8	306·9	10th	295·4	293·6	20, 24, 31	300·1	*300·3*	+0·5	2	− 29
939	Loanda	8 49	E 13 13	59·3	..	..	..	302·5	304·7	3rd	297·0	295·5	1st	299·7	299·4	+0·3	36	− 43
940	Brazzaville	4 17	15 16	321	975·7	1011·7	+ 0·8	305·3	309·5	24th	294·1	292·0	1st	299·7	*299·0*	−0·1	104	
943	Masaka	0 21	31 47	‡1280	..	..	..	302·9	304·7	24th	..	..	..	..	*293·3*	+0·2	126	+ 32
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	300·8	303·0	23rd	285·2	281·3	8th	293·0	..	..	253	− 65
944*a*	Zanzibar	6 10	39 11	21·9	1010·3	1012·8	− 0·1	303·8	305·3	22nd	299·9	296·3	29th	301·8	*301·2*	+0·4	89	− 14
945	ϕLamu	2 16	40 50	3·0	..	..	..	303·0	304·1	10, 22, 31	298·3	297·4	21, 22, 24	300·7	*300·3*	−0·2	5	+ 104
947	Seychelles, Port Office	4 37	55 27	4·6	1010·9	1011·5	+ 0·9	302·2	303·6	31st	298·4	296·6	11th	300·3	*299·7*	+0·7	334	
957	ϕPadang	0 56	100 22	6·7	1009·6	1010·4	− 0·2	..	..	..	..	..	..	..	..	..	218	+ 77
958	Batavia	6 11	106 50	8·0	1009·3	1010·2	+ 0·4	302·9	304·4	12th, 28th	296·3	295·3	4th	299·6	299·1	+0·1	270	+ 72
958*a*	Pontianak	0 1	109 20	2·6	1011·0	1011·3	+ 1·1	..	..	..	..	..	..	..	..	..	350	+ 102
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	151	− 55
960	Kajoemas	7 56	114 9	1069	..	..	..	..	..	..	..	..	..	..	..	..	391	− 60
962	Amboina	3 42	128 10	4·2	1008·6	1009·1	− 0·1	..	..	..	..	..	..	..	..	..	96	− 37
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	257	− 03
965	Daru	9 4	143 13	7·6	..	..	..	..	..	..	..	..	..	..	..	..	320	− 7
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	..	..	..	..	..	..	..	..	..	316	+ 135
967	Rabaul	4 9	152 12	20·7	..	1006·6	..	303·7	306·1	9th	295·8	294·3	20th	299·8	*299·3*	−0·4	508	+ 244
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1006·4	1006·6	− 1·4	303·8	305·4	16th	297·8	296·9	2nd, 16th	300·8	*300·5*	+0·1	681	+ 287
970	Ocean Island	0 52	169 35	54·0	?999·9	?1006·1	− 1·5	303·8	305·2	31st	297·3	294·1	17th	300·6	*300·0*	−0·2	366	+ 148
		S.	E.															

MARCH—ZONE 10.

Between Latitude 10° S. and 20° S.

		S.	W.															
1002	Apia, Samoa	13 48	171 46	2	..	1007·8	− 1·4	302·4	304·3	18th, 20th	296·2	294·5	15th	299·3	299·5	+0·3	1207	+042
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	302·8	308·0	2nd	295·6	290·8	31st	299·2	*298·9*	−0·7	785	+ 495
1021	ϕArequipa	16 22	71 33	2452	760·1	..	− 0·6	292·6	295·2	27th	283·4	281·9	1st	288·0	*287·7*	+0·4	40	+ 25
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	289·7	284·0	29th	..	*294·5*	..		0
1023																		..
1024	Sucre, Bolivia	19 3	65 16	2850	728·8	..	..	293·2	301·0	28th	282·3	280·0	12th, 21st	287·7	*288·0*	..	7	− 85
1025	ϕCorumba	18 59	57 39	116	995·2	1008·3	− 0·7	304·1	309·0	14th	294·6	292·2	8th	299·4	*298·5*	−0·7	162	+ 31
1026	ϕCuyaba	15 36	56 6	165	990·4	1009·0	− 0·2	304·7	308·2	13th	294·8	293·4	18th, 19th	299·8	*298·2*	−0·3	262	+ 54
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	− 66
1028	Caetite	14 3	42 37	897	914·3	1012·1	− 0·2	301·6	304·8	17th	291·6	290·4	1st	296·6	*297·3*	+1·1	36	− 112
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1006·1	1011·5	− 0·8	303·1	304·3	15th	296·5	294·8	11th	299·8	*299·5*	+0·6	39	+ 27
1030	ϕAracaju	10 55	37 3	6·1	1011·9	1012·7	− 0·4	302·9	305·8	29th	297·8	296·2	5th	300·4	*300·1*	−0·1	123	
1035	St. Helena	15 57	W 5 40	‡604	945·9	1014·2	+ 1·5	298·2	299·7	19th	286·9	285·2	14th	292·6	*292·6*	+0·3	174	+ 49
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	270	+ 24
1041*a*	Elisabethville	11 39	27 28	1236	876·8	1008·7	+ 0·1	302·1	305·0	1st	289·4	287·3	21st	295·7	..	+0·7	244	+298
1042	Gwelo	19 28	29 48	1417	861·5	1012·9	− 0·1	296·7	300·3	4th	288·8	283·9	29th	292·7	..	−0·3	360	
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡852·0	‡1008·0	− 1·6	298·7	300·1	15th	287·9	284·1	29th	293·3	*292·2*	+0·2	291	+ 177
1044	Zomba	15 23	35 18	955	905·6	1009·7	− 0·8	299·9	303·0	22nd	291·1	289·7	24th	295·5	*294·9*	+0·7	266	+ 53
1045	ϕAntananarivo	18 55	47 33	1375	863·9	1010·5	+ 0·9	298·9	301·0	25th	289·2	287·8	10, 15, 18	294·1	293·7	+1·0	385	+ 55
1046	Tamatave	18 10	49 24	5	..	..	..	303·0	304·0	..	295·1	291·0	..	299·1	*298·6*	..	178	+ 60
1047	Vohémar	13 21	50 1	3	..	..	..	306·6	308·2	..	297·2	296·0	..	301·9	*301·3*	..	121	
1048	Antalaha	14 58	50 19	3	1011·5	1011·8	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1011·5	1012·0	+ 0·2	303·0	305·2	1st	298·4	296·7	15th	300·7	*300·3*	+0·1	309	+ 72
1057	ϕChristmas Island	10 25	105 43	5·5	1007·4	1008·0	+ 0·3	304·4	306·3	19, 23, 27	297·3	295·8	3rd, 6th	300·8	*299·9*	+0·1	276	+ 10
1061	Kupang	10 10	123 34	45·1	1004·3	1009·6	+ 0·2	303·4	305·1	24th	296·4	294·8	2nd	299·9	299·4	0·0	158	− 61
1061*a*	ϕDerby	17 18	123 40	16·2	1006·2	1008·1	− 0·6	307·2	311·4	27th	297·1	294·7	27th, 31st	302·1	..	−1·0	171	+ 33
1062	ϕHall's Creek	18 13	127 46	373	966·5	1007·4	− 1·5	307·3	311·3	1st	293·2	288·3	29th	300·2	*299·8*	−1·0	90	+ 13
1063	Darwin	12 28	130 51	29·6	1003·7	1007·1	− 0·4	304·7	308·1	28th	297·6	295·6	21st, 25th	301·2	*300·1*	−0·7	383	+ 36
1064	Daly Waters	16 16	133 23	211	981·8	1005·2	− 2·2	307·2	311·3	22nd	295·3	290·2	28th	301·2	*300·8*	−0·6	44	+ 26
1065	ϕMein	13 13	142 47	122	992·1	1005·7	− 1·3	303·9	307·2	8th	294·6	293·1	18th	299·3	..	−0·6	264	− 108
1066	ϕGeorgetown, Queensland	18 22	143 32	302	975·4	1008·7	0·0	307·4	310·7	1st	295·6	293·0	1st	301·5	..	+1·6	29	
1066*a*	Willis Island	16 18	149 59	8·5	1006·7	1007·6	..	303·1	304·7	10th	298·2	296·7	26th	300·7	*300·3*	..	125	+ 109
1067	Samarai	10 37	150 40	15·2	..	1006·3	− 1·6	302·2	..	..	..	..	..	..	‡*300·2*	−0·7	502	− 81
1072	Suva, Fiji	18 8	178 26	6·1	1006·8	1007·4	− 2·6	301·8	303·9	2nd	296·9	294·9	26th	299·3	*299·0*	−0·7	351	
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 112 and 113. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 112 and 113. ϕ Change of normals *see* pages 112 and 113.

MARCH—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	301·4	303·0	1st	296·3	294·7	11, 16, 18	298·8	*298·5*	+0·1	340	+ 71
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1010·6	1013·8	− 0·9	292·7	295·0	2nd	287·2	285·0	30th	289·9	*289·9*	+0·6	0	− 1
1122	Iquique	20 12	70 11	9	1011·8	1012·9	− 0·7	294·9	297·1	1st	288·2	286·8	27th	291·5	*292·2*	−0·8	0	0
1123	Catamarca	28 27	65 47	510	949·9	1006·2	− 3·0	306·2	316·2	12th	292·5	285·0	5th	299·3	298·6	+1·9	26	− 22
1124	Salta	24 46	65 28	1178	881·0	1008·2	− 0·9	300·9	304·6	29th	289·2	286·3	10th	295·1	295·0	+2·1	59	− 44
1125	Goya	29 9	59 15	26	1006·0	1009·0	− 1·2	306·7	311·7	1st	294·4	285·6	5th	300·5	299·3	+2·6	77	− 64
1126	Asuncion	25 17	57 41	93	999·0	1009·8	− 0·8	309·9	313·1	13th	294·1	289·8	6th	302·0	299·8	+1·2	66	− 42
1127	Curityba	25 25	49 17	908	912·1	1012·6	− 1·3	298·2	303·1	13th	288·9	284·0	30th	293·6	*292·3*	+0·2	145	+ 31
1128	Rio de Janeiro	22 54	W43 10	33·0	1008·1	1011·9	− 0·9	303·3	309·1	5th	295·6	293·0	18th	299·4	298·6	+0·6	‡92	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	297·8	301·3	4th	289·0	286·8	19th	293·4	*293·4*	−0·7	217	+132
1140																		
1141	Kimberley	28 42	24 47	1202	882·3	1011·4	+ 0·2	302·8	307·2	8th	288·4	280·8	29th	295·6	295·3	+1·5	34	− 39
1142	Johannesburg	26 11	28 4	1806	822·8	1012·9	− 0·4	297·4	300·3	8th, 15th	285·8	282·4	31st	291·6	*291·1*	+1·2	52	− 61
1143	Bulawayo	20 9	28 35	1340	866·9	1010·8	− 1·1	296·7	300·2	4th	289·0	285·3	28th	292·8	*292·2*	−0·7	209	+129
1144	Durban	29 52	31 3	15·2	1014·1	1015·9	− 1·3	301·5	304·6	7th	293·8	289·7	31st	297·7	*297·1*	+1·1	60	− 76
1145	Lourenço Marques	25 58	32 36	59	..	1014·0	− 1·0	302·4	307·0	14th	294·1	290·7	31st	298·3	297·8	+0·3	180	+ 74
1146	Tuléar	23 23	43 40	4	..	..	..	..	..	..	289·3	287·0	..	..	..	..	118	..
1147	Fort Dauphin	25 2	46 58	25	..	1012·3	..	301·4	303·0	..	295·6	294·0	..	..	*298·1*	..	210	..
	Mauritius	20 6	57 33	55·2	1006·4	1012·7	+ 0·7	301·8	304·0	13th	294·9	291·7	6th	298·3	297·9	−0·4	289	+ 51
1159	Onslow	21 43	114 57	4·3	1006·5	1007·4	− 0·9	307·9	317·6	8th	295·8	291·3	30th	301·9	..	−0·3	350	+326
1160	Cue	27 27	117 52	454	960·4	1010·1	− 0·7	308·8	313·1	8th	295·2	288·4	29th	302·0	..	+2·1	12	− 13
1161	ϕNullagine	21 53	120 5	386	965·4	1007·4	− 1·1	310·1	314·9	7th	295·4	289·3	28th	302·8	..	+0·7	20	− 38
1162	Laverton	28 40	122 23	466	961·1	1012·5	− 1·0	307·6	312·4	6th	292·8	286·6	30th	300·2	*300·1*	+2·8	6	− 25
1163	Alice Springs	23 38	133 37	587	946·3	1009·2	− 2·6	305·8	310·0	3rd	290·5	284·7	23rd, 25th	298·2	*298·5*	+0·4	50	+ 20
1164	ϕWilliam Creek	28 55	136 21	76·2	1004·2	1012·8	− 1·2	307·9	311·9	17th	291·6	285·8	22nd, 23rd	299·8	*299·6*	+2·1	3	− 14
1165	Boulia	22 55	139 38	146	991·4	1007·4	− 1·1	311·2	315·9	1st	297·7	293·1	31st	304·4	*304·7*	+3·6	1	− 44
1166	Thargomindah	27 58	143 43	123	996·9	1010·6	− 1·1	308·7	313·1	7th	295·0	289·7	23rd	301·8	*301·6*	+2·6	1	− 19
	Mitchell	26 32	147 52	336	974·3	1011·3	..	306·3	313·8	1st	290·6	285·8	31st	298·4	...	+2·3	28	− 53
1167	ϕRockhampton	23 24	150 30	11·3	1010·2	1011·5	− 0·3	305·7	313·4	1st	294·6	291·6	28th	300·2	..	+1·4	14	−115
1168	ϕBrisbane	27 28	153 2	41·8	1009·5	1014·3	− 0·2	302·3	306·3	1st	292·6	289·5	25th	297·4	*296·8*	+0·9	59	− 88
1170	ϕNorfolk Island	29 4	167 59	15·2	1014·1	1015·9	+ 1·7	296·7	298·8	16th	..	..	..	..	..	..	38	− 61
		S.	E.															

MARCH—ZONE 12.

Between Latitude 30° S. and 40° S.

		S.	W.															
1221	Juan Fernandez	33 37	78 50	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1222	Punta Tumbes	36 37	73 6	120	1001·2	1015·6	+ 0·2	290·8	294·0	6th, 17th	283·8	280·5	13th	287·3	*287·8*	−0·1	55	+ 39
1223	Punta Angeles, Valparaiso	33 1	71 38	41	1008·4	1013·3	− 1·7	295·3	299·5	27th	285·3	283·4	14th	290·3	*289·7*	−0·4	0	− 10
1224	Santiago	33 27	70 42	520	953·2	1012·7	− 0·8	300·2	303·6	17th	282·2	280·0	13th	291·2	*290·1*	+0·5	0	− 5
1225	Cordoba	31 25	64 12	423	961·6	1009·3	− 2·5	302·5	309·5	12th	289·1	283·5	15th	295·8	295·2	+1·9	137	+ 49
1226	Bahia Blanca	38 45	62 15	25	1008·0	1011·0	− 2·2	299·4	306·9	17th	288·0	283·0	14th	293·7	292·9	+0·5	54	− 13
1227	Buenos Ayres (Chacarita)	34 36	58 22	25	1009·1	1010·7	− 3·3	301·0	307·5	12th	290·4	282·5	14th	295·7	295·4	+2·0	135	+ 24
1228	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1011·4	− 3·1	..	307·8	12th	..	287·5	15th	..	*295·6*	+2·1	138	+ 54
1229	ϕPorto Alegre	30 2	W51 13	23·5	1007·7	1010·4	− 3·8	303·8	310·0	3rd	292·1	288·0	7th	297·9	297·5	+2·0	36	− 40
1239	ϕCape Town	33 56	E 18 29	12·2	..	1014·6	+ 0·1	299·6	308·7	12th	288·3	281·2	14th	293·9	*292·2*	+0·8	18	− 4
1240	Danger Point	34 37	19 18	27·7	1014·4	1017·7	..	296·3	298·6	24th, 26th	288·9	285·8	22nd	292·6	..	+2·3	4	− 25
1241	Riversdale	34 6	21 16	‡?100	1002·8	1014·4	..	301·3	309·7	17th	287·8	282·4	31st	294·6	..	..	0	− 44
1242	East London	33 2	27 55	44·8	..	1014·8	− 0·2	298·4	302·4	7th	290·5	287·4	15, 29, 31	294·4	..	+1·1	65	− 8
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1007·1	1014·3	− 1·1	302·1	310·2	20th	290·4	283·2	29th	296·2	*295·7*	+1·4	54	+ 33
1260	Katanning	33 42	117 35	310	980·2	1015·9	0·0	300·1	310·3	1st	285·3	280·2	27th, 29th	292·7	..	+0·4	30	+ 6
1261	Coolgardie	30 57	121 10	423	966·8	1014·2	− 0·5	304·4	311·4	17th	289·5	283·8	30th	296·9	*296·8*	+1·7	13	− 6
1262	Eucla	31 45	128 58	4·6	1015·3	1015·9	− 0·4	297·9	314·5	26th	290·3	285·8	2nd	294·1	*293·5*	+0·4	1	− 22
1263	Streaky Bay	32 48	134 13	13·1	1015·8	1017·1	+ 0·2	302·2	307·6	16th	286·6	282·1	9th	294·4	*293·7*	+1·2	1	− 14
1264	ϕAdelaide	34 56	138 35	42·7	1012·6	1017·6	+ 0·4	300·6	306·7	17th	286·8	282·8	8th	293·7	*293·2*	−0·3	1	− 25
1265	ϕMelbourne	37 49	144 58	35·1	1012·8	1016·9	− 0·1	296·1	307·0	27th	285·1	280·2	24th	290·6	*290·2*	−0·5	8	− 47
1266	Bourke	30 13	145 58	110	1003·4	1016·1	− 0·1	309·1	314·1	7th	292·2	287·4	22nd, 26th	300·6	..	+2·4	0	− 32
1267	ϕSydney	33 51	151 13	42·1	1010·5	1015·4	− 1·0	299·6	310·6	30th	291·1	288·4	23rd	295·3	*294·7*	+1·6	48	− 78
1268	ϕLord Howe Island	31 20	159 0	4·6	1015·0	1015·7	− 0·5	298·3	301·7	1st	291·6	286·1	24th	295·0	..	+0·1	238	+106
1271	Auckland	36 50	174 50	38·1	..	1015·8	+ 0·3	293·3	295·2	7th, 13th	286·3	283·6	1st	289·8	..	−1·5	45	− 32
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

MARCH—ZONE 13.

Between Latitude 40° S. and 50° S.

		S.	W.															
1301	Chatham Island	43 57	176 31	45·7	..	1009·4	..	..	..	..	..	..	..	..	..	..	114	+ 33
1302	Isla Guafo	43 34	74 45	140	993·5	1010·2	− 5·7	286·8	289·2	7th	282·5	278·6	19th	284·7	*284·9*	−0·1	203	+131
1303	Punta Galera	40 1	73 44	40	1010·0	1014·8	− 1·2	288·9	291·8	18th	284·0	281·0	3rd	286·5	*287·4*	+0·5	193	+ 78
1304	Sarmiento	45 30	69 0	274	973·5	1005·9	− 4·5	292·4	300·6	16th	280·8	276·5	31st	286·6	286·7	−1·0	10	− 3
1305	Puerto Madryn	42 49	W64 58	14	1006·0	1007·4	− 4·1	297·3	308·0	16th	285·1	278·7	27th	291·2	291·0	+0·7	15	+ 2
1306	Launceston	41 27	E147 10	10·1	1011·7	1012·9	− 1·5	294·7	300·1	15th	282·9	276·6	24th	288·8	*287·8*	−0·3	20	− 24
1307	ϕHobart	42 53	147 20	53·9	1005·8	1012·3	− 1·7	291·9	300·7	27th	282·9	279·8	16th	287·4	*286·4*	−0·8	81	+ 38
1270	Invercargill	46 25	168 21	3·7	..	..	..	289·4	295·2	13th	279·0	272·4	8th	284·2	..	−1·4	189	+ 91
1271	Dunedin	45 52	170 31	91·4	..	1010·9	− 3·5	290·1	295·2	28th	281·5	277·4	16th, 31st	285·8	..	−0·2	88	+ 12
1271*a*	Christchurch	43 31	172 39	7·6	..	1011·7	− 2·5	291·2	296·5	23rd	281·7	273·9	19th	286·4	..	−1·1	10	− 43
1272	Wellington	41 16	174 46	3·0	..	1014·6	− 1·9	291·8	293·9	3rd	284·9	278·7	6th	288·3	..	−0·5	51	− 34
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 113 and 114. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114. ϕ Change of normals *see* pages 113 and 114.

MARCH—ZONE 14.

RÉSEAU MONDIAL
Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	992·0	998·7	— 3·5	282·1	284·9	5th	279·0	277·2	2nd, 25th	280·5	*280·6*	—0·8	301	+ 13
1422	Puerto de Punta Arenas	53 10	70 54	28	994·7	998·1	— 3·2	284·2	289·5	8th	278·6	274·5	25th	281·4	*281·6*	—0·3	24	— 20
1423	Punta Dungeness	52 24	68 26	5	997·1	997·7	— 3·4	285·2	288·0	16th	279·3	276·5	2nd	282·3	*282·3*	—0·8	69	+ 40
1424	Santa Cruz	50 11	68 21	12	998·8	999·8	— 4·2	288·7	294·3	16th	278·3	272·2	30th	283·5	283·7	—1·8	12	+ 4
14244	‡Año Nuevo	54 39	64 8	50	..	..	..	283·3	291·2	3rd	277·3	273·3	6th	280·3	*279·5*	—0·8	129	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	999·7	..	284·1	288·6	7th	277·1	271·3	29th	280·6	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	997·2	999·8	— 1·5	283·8	288·0	11th	278·1	275·2	3, 26, 27	280·9	281·2	—0·4	..	..
1429	S. Georgia (Cumberland Bay)	54 14 S.	36 33 W.	4	999·0	999·5	+ 3·3	280·3	290·1	12th	272·9	266·8	18th	276·6	*277·1*	—0·4	103	— 25

MARCH—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys.	60 44 S.	44 39 W.	7	995·6	995·5	+ 5·2	274·6	277·6	17th	271·5	267·9	3rd	273·1	273·1	+0·6	30	— 16
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—MARCH, 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	SE	4·4	SE 3	Calm 0	WSW 1	SW 1	NW 2	..	..	NW 2	N 3	Calm 0	Calm 0
2	ESE	4·0	ESE 3	Calm 0	SW 3	Calm 0	S 2	..	..	Calm 0	NE 1	NW 3	SW 2
3	SE	2·7	SE 5	SSW 1	WSW 2	SW 1	SE 1	..	..	NW 2	NW 3	NW 3	Calm 0
4	SE	3·8	SE 4	Calm 0	SW 2	E 1	Calm 0	..	..	..	NW 2	SW 5	E 4
5	SE	4·1	E 4	Calm 0	WSW 2	SE 2	SE 2	..	..	NW 2	SW 3	WNW 4	ESE 5
6	SE	5·2	E 2	Calm 0	SW 1	NW 1	Calm 0	..	..	Calm 0	NE 3	NE 2	SE 4
7	SE	4·5	E 2	WSW 1	WSW 3	SE 1	SE 2	..	..	NW 2	NE 3	N 2	SE 0
8	SE	3·7	SE 3	WSW 2	WSW 3	NE 1	E 1	..	..	NW 2	N 1	N 4	SEby S 5
9	SSE	2·9	E 2	Calm 0	WSW 3	SE 2	SE 1	..	..	NW 2	NE 2	N 1	SE 4
10	ESE	3·7	E 2	NW 1	SW 2	NW 1	NE 2	..	..	Calm 0	N 5	ENE 4	SE 4
11	SSE	4·0	NE 2	NW 1	Calm 0	N 2	SE 1	..	..	..	NE 4	NE 3	SE 4
12	SE	3·1	SSE 3	Calm 0	WSW 1	SE 3	E 1	..	..	Calm 0	ENE 2	ENE 2	ENE 3
13	ESE	4·0	SSE 3	NW 1	SW 1	SE 2	Calm 0	..	..	Calm 0	E 2	ENE 2	NE 5
14	ESE	4·4	SE 3	Calm 0	WSW 2	Calm 0	E 1	..	..	NW 2	NE 3	Calm 0	ESE 5
15	SE	7·2	ESE 4	NW 1	WSW 3	SW 1	NW 2	..	..	Calm 0	N 2	Calm 0	WSW 5
16	SE	4·8	E 3	NE 1	SW 2	Calm 0	Calm 0	..	..	Calm 0	Calm 0	Calm 0	SE 1
17	ESE	4·8	ESE 2	SW 1	SW 3	SW 2	Calm 0	..	..	Calm 0	Calm 0	Calm 0	Calm 0
18	SSE	7·0	SE 3	NW 3	SW 4	N 2	E 1	..	..	..	Calm 0	NE 2	SE 4
19	SE	6·0	SE 3	WSW 1	WSW 4	Calm 0	SW 2	..	..	Calm 0	NE 1	ENE 3	SE 4
20	SE	7·0	ESE 2	NW 2	WSW 3	E 1	SW 1	..	..	Calm 0	ENE 3	Calm 0	SE 2
21	SSE	6·3	SE 3	SW 1	SW 3	Calm 0	SE 1	..	..	SE 4	NE 3	NE 1	NE 2
22	SE	3·2	E 4	SW 2	SW 3	SW 1	SE 2	..	..	Calm 0	NW 1	NW 1	NE 3
23	SE	4·0	SE 3	NE 2	WSW 2	SW 2	SW 2	..	..	Calm 0	NW 3	NNW 1	N 4
24	ESE	4·9	SE 2	NW 1	SW 4	SE 3	SW 1	..	..	Calm 0	NE 4	ENE 4	SE 4
25	SSE	6·3	SE 2	ENE 1	WSW 1	SE 1	SE 2	..	..	..	ENE 4	ESE 5	N 0
26	SE	4·8	SE 2	SW 1	SW 2	SE 1	SE 1	..	..	Calm 0	E 6	E 6	Calm 0
27	SE	5·6	ESE 3	NE 1	SW 1	Calm 0	S 2	..	..	Calm 0	ENE 6	ENE 5	NW 2
28	SE	6·3	ESE 3	NNW 1	SW 1	SE 1	W 2	..	..	SE 2	E 5	E 4	NE 2
29	ESE	7·0	SE 3	NNW 2	SW 2	W 1	S 1	..	..	SE 4	ENE 4	ENE 3	SE 5
30	SE	6·1	ESE 3	W 2	SW 2	Calm 0	SE 1	..	..	..	ENE 3	W 2	ESE 5
31	SE	5·8	E 3	SW 2	SW 2	W 2	Calm 0	..	..	..	NW 2	WNW 3	SE 3
Mean	..	4·9	2·9	1·0	2·2	1·2	1·2	..		1·0	2·7	2·4	3·2
§Resultant	135° (94)	..	120° (89)	250° (58)		155° (30)		..		315° (16)	35° (49)		110° (40)
§Normal	142° (88)	6·4	‖78° (83)	277° (38)		260° (39)		‖‖76° (77)		320° (0)	‖84° (41)		79° (42)

‖Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—MARCH, 1923.

‡‡*Barents Sea.*—From the 1st to 8th there was ice everywhere round Bear Island, though on some days it only consisted of scattered drift ice drifting northeast. From the 9th to 31st no ice was observed from the island.

‡‡*Spitsbergen.*—On the 19th a NW. gale drove the ice towards King's Bay which became blocked, but by the 26th the ice had disappeared. Wijde Bay was filled with ice.

‡‡*Iceland.*—The coasts of Iceland and Grimsey were free of ice. The normal duration of average ice conditions is 5 days visible and 2 days heavy.

‡‡*Denmark Strait.*—At Angmagsalik there was ice everywhere.

‡‡*N. Atlantic and Labrador.*—Twenty-eight icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 31. The eastmost occurred in 40°W. Heavy ice extended southward from Cape Race to 44°N., and further west the ice was lying 100 miles south of Sable Island. In the Gulf of St. Lawrence and in Belle Isle Strait there was heavy closely-packed ice everywhere; sometimes it was impossible to reach the coast of Nova Scotia.

‡‡*Davis Strait.*—At Cape Farewell, "Storis" was only visible in the offing on odd days, and a few icebergs were observed lying about 60 miles offshore towards the end of the month. "Storis" drifted northwards passed Sagdlet to Kagsimiut and Julianehaab Bay after the 6th, but after the 21st these places were again free of ice. North of Nunarsiut the sea was free of ice along the coast. At Arsuk there were many icebergs. In Fox Channel on the 2nd the open water reached to Winter Island from where the ice edge passed 3 miles off Vansittart Island to Frozen Strait. On the 26th no open water could be seen in Fox Channel, but afterwards the ice again drifted eastwards to about its position on the 2nd.

‡‡ *Isforholdene i de arktiske Have*, 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, APRIL 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE
FOR THE MONTH OF APRIL 1923
BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **APRIL—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1225	Barrow	71 23	156 17	7·0	..	1018·3	..	259·1	270·2	4th	249·8	242·4	25th	254·4	..	0·0	9	+ 2
1234	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1235	Upernivik	72 47	56 7	19·2	1009·1	1011·5	— 4·4	271·3	280·6	18th	261·9	256·2	6th, 7th	266·6	*266·3*	+7·8	30	+ 15
1333	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1335	Jan Mayen	70 59	W 8 18	23·1	1015·2	1018·1	..	..	275·0	8th	269·8	264·2	23rd	..	*271·4*	..	12	..
1340	§Spitsbergen (Green Harbour)	78 2	E 14 14	11·4	1016·0	1017·5	+ 4·5	..	275·0	5th	258·8	245·1	19th	..	263·1	+3·7	42	+ 18
1411	Björnöen	74 28	19 15	40·5	1008·0	1013·2	..	..	276·2	5th	266·2	255·5	19th	..	*268·2*	..	12	..
1412	Gjesvaer	71 6	25 22	6·5	1014·6	1015·4	+ 4·4	..	278·0	6th	270·3	265·3	19th	..	*272·4*	—0·1	44	— 3
1413	Mehavn	71 1	27 47	4·6	1014·4	1015·5	+ 5·3	..	276·8	3rd	268·7	261·5	25th	..	*270·9*	—0·9	59	+ 11
1415	Vardö	70 22	31 8	6·8	1014·1	1015·0	+ 3·1	..	277·2	7th	268·9	264·2	29th	..	*271·1*	—0·5	52	+ 13
1545	Malye Karmakouly	72 23	52 43	14·8	1012·4	1014·3	+ 1·3	262·0	272·6	1st	255·3	249·0	3rd	258·6	*259·0*	—3·7	24	+ 17
1548	Waigatz	70 24	58 47	11·2	1010·0	1011·5	— 2·4	259·0	272·1	1st	251·3	246·9	12th	255·2	*255·6*	..	1	..
1553	Dickson	73 30 N.	80 23 E.	13	1007·9	1009·7	..	257·0	266·5	4th	250·5	243·5	23rd	253·8	..	..	9	..

Between Latitude 70° N. and 60° N. **APRIL—ZONE 2.**

2503	Nome	64 30	165 24	6·7	..	1011·8	+ 0·6	269·9	275·2	4th, 5th	262·9	251·9	25th	266·4	*266·9*	+1·8	2	— 13
2504	Candle	65 55	161 57	2·4	..	..	..	270·0	278·0	2nd	256·0	241·9	19th	263·0	..	+2·9	13	..
2505	Tanana	65 10	152 6	67·1	..	1009·8	— 5·4	275·4	280·8	7th	261·7	248·0	25th	268·6	..	+0·3	9	+ 2
2506	Rampart	65 30	150 15	122	..	..	..	273·7	280·2	7th	260·2	250·8	21st	267·0	..	—1·2	4	— 2
2507	Valdez	..	..	..	..	..	..	279·7	283·0	30th	269·8	261·3	6th	274·7	..	+0·6	70	— 15
2508	ϕEagle	61 7	146 16	8·2	..	..	..	279·7	283·0	30th	269·8	261·3	6th	274·7	..	+0·6	70	— 15
2509	ϕDawson	64 46	141 12	254	..	1009·5	— 1·7	278·8	284·7	24th	265·4	255·8	3rd	272·1	..	+1·8	6	— 4
2511	Carcross	64 4	139 29	324	969·4	1009·5	— 1·9	278·6	286·3	24th	265·2	248·6	1st	271·9	..	+0·8	7	— 9
2512	Fort Good Hope	66 25	128 53	65·2	1008·1	1016·7	..	270·2	285·8	24th	254·4	238·0	10th	262·3	..	..	13	— 7
2513	Fort Simpson	61 52	121 35	129	997·5	1014·0	— 0·7	278·2	290·8	26th	260·7	241·9	5th	269·4	..	—1·2	1	— 26
2514	Hay River	60 51	115 20	161	992·7	1013·5	— 2·2	271·8	289·1	16th	257·4	235·8	5th	264·6	..	—3·5	24	+ 11
2515	Jacobshavn	69 13	51 2	12·6	1007·4	1009·0	— 4·5	273·6	283·7	17th	265·6	257·9	10th	269·6	*270·0*	+6·7	23	+ 11
2516	Godthaab	64 11	51 43	20·4	1003·5	1006·0	— 3·8	275·6	284·7	16th	268·1	260·4	4, 5, 6	271·9	*271·1*	+2·2	5	— 23
2517	Ivigtut	61 12	48 10	13·0	1003·5	1005·1	— 3·6	277·0	286·7	21st	269·0	259·4	7th	273·0	*273·2*	+0·8	43	— 19
2518	Angmagsalik	65 37	37 33	31·7	1005·8	1009·8	— 0·8	276·2	280·8	21st	270·9	263·5	30th	273·5	*273·0*	+4·7	121	+ 58
2521	Stykkisholm	65 5	22 46	25	1007·8	1010·9	+ 0·9	280·0	284·0	19th	273·8	269·8	26th	276·9	*276·7*	+2·9	27	— 11
2523	Vestmanno	63 24	20 17	132	993·0	1009·3	+ 1·0	280·4	285·2	14th	275·7	271·6	26th	278·1	*277·3*	+1·0	92	— 5
2525	Grimsey	66 33	18 1	22·0	1010·0	1012·7	+ 1·3	277·6	281·8	9th	273·4	269·0	24th	275·5	*275·2*	+3·3	..	..
2526	Teigarhorn (Berufjord)	64 41	14 22	18·0	1011·4	1013·6	+ 3·3	279·9	285·1	19th	274·6	269·4	26th	277·3	*276·6*	+2·2	70	— 11
2527	ϕThorshavn	62 3	6 45	26·3	1009·5	1012·8	+ 2·1	279·0	283·0	18th	275·7	271·2	24th	277·8	*277·8*	+0·1	59	— 34
2528	Lerwick	60 9	W 1 11	18·0	..	1012·5	+ 1·3	280·2	283·6	30th	275·8	272·4	21st	278·0	*278·3*	—0·3	45	— 13
2531	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1007·0	1012·5	— 1·0	282·2	289·9	13th	274·6	272·5	25th	278·4	*278·3*	0·0	37	— 59
2532	Aalesund	62 28	6 10	6·3	1013·0	1013·8	+ 0·6	..	283·6	13th	274·2	270·6	21st	..	*277·0*	—1·0	39	— 20
2533	Frondhjem	63 26	10 25	39·5	1009·6	1014·5	+ 1·1	279·9	284·7	12th	272·9	268·2	21st	276·4	*276·3*	—0·2	17	— 28
2534	Bodö	67 17	14 24	22·3	1012·7	1015·4	+ 4·2	..	279·6	5th	271·9	267·6	22nd	..	*274·2*	—0·1	14	— 37
2535	Haparanda	65 50	24 9	9·2	1015·0	1016·2	+ 3·1	274·6	279·5	1st, 3rd	263·9	255·5	1st	269·3	*270·0*	—1·4	16	— 10
2536	§Helsingfors	60 10	24 57	11·7	1012·7	1014·2	+ 0·1	278·3	282·9	10th	270·8	261·8	1st	274·5	*274·2*	—0·4	19	— 17
2537	Kuopio	62 54	27 40	90·3	1003·0	1014·4	+ 0·1	276·3	281·4	19th	267·0	259·2	1st	271·7	*272·6*	—1·6	33	0
2543	Kola	68 53	33 1	6·7	1014·2	1015·1	+ 2·5	272·7	278·2	7th	263·9	252·9	15th	268·3	*268·7*	—2·7	27	+ 13
2544	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2545	Arkhangelsk	64 37	40 31	6·3	1011·4	1012·2	— 1·4	272·3	281·5	29th	263·7	255·0	25th	268·0	*268·4*	—3·4	14	— 5
2546	ϕMezen	65 50	44 16	14·9	1009·2	1011·1	— 3·1	269·5	279·5	19th	261·2	251·8	16th	265·4	*265·7*	—5·0	11	— 3
2547	Osst-Tsylma	65 25	52 18	? 68	..	..	..	270·2	280·2	19th	260·0	246·2	8th	265·1	*264·9*	—5·7	28	+ 10
2548	ϕTcherdyn	60 24	56 31	?177	987·9	1010·2	— 5·4	274·9	284·8	20th	265·6	253·6	10th	270·2	*270·3*	—3·6	48	+ 25
2549	Berezov	63 56	65 4	39·5	1008·2	1013·4	— 3·5	269·8	284·7	20th	258·1	246·6	5th	264·0	*263·9*	—4·1	4	— 13
2550	Obdorsk	66 31	66 35	23·7	1009·0	1012·1	— 4·5	263·1	273·8	15th	253·6	242·6	1st	258·4	*258·3*	—4·3	7	— 1
2551	ϕSourgout	61 15	73 24	? 40	1007·8	1012·9	— 4·5	..	283·5	22nd	257·5	235·6	1st	..	*266·2*	—2·2	22	+ 6
2552	Doudinka	69 23	86 4	20·0	1008·6	1011·2	— 0·5	..	272·9	16th	250·5	240·2	1st	..	*255·1*	—2·2	4	— 5
2553	Touroukhansk	65 47	87 57	45·0	1008·4	1014·3	— 1·2	..	276·5	15th	253·0	235·5	1st	..	*261·1*	—1·6	7	— 8
2562	Vitionisk	63 45	121 35	120	..	..	..	..	276·6	25th	256·4	240·4	3rd	..	*264·2*	—0·5	6	— 1
2563	Jakoutsk	62 1	129 43	108	1000·6	1014·3	+ 0·9	..	278·6	26th	258·2	244·8	5th	..	*264·9*	—0·3	1	— 8
2564	Verkhoiansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		N. °	E. °	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*.
** Height changed from 46·9 m. to 18·0 m. from April 1st. ϕ Change of normals *see* pages 105 and 106.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1002·7	— 6·6	274·7	278·6	4th	270·1	264·1	18th	272·4	..	+2·2	21	— 19
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1001·3	— 8·7	277·3	281·9	30th	272·3	266·3	19th	274·8	*274·7*	0·0	181	+ 97
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	275·3	279·1	28th	269·8	250·1	17th	272·6	..	+1·5	54	+ 17
306	Kodiak (Radio)	57 46	152 22	6·1	..	1004·7	— 4·4	279·7	284·1	5th	273·4	269·1	17th	276·6	*276·4*	+0·9	87	— 6
										Sea Temp.							
307	55°—50°N. 150°—145°W.	††51 20	††147 54	§(15)	..	1005·4	— 4·7	..	..	277·4|+1·1	..	..	..	..	276·9	0·0	..	..
309	Sitka	57 3	135 19	27·4	..	1010·8	— 2·6	283·7	290·8	5th	275·2	271·9	4th, 6th	279·4	*279·0*	+0·5	120	+ 8
310	Prince Rupert	54 18	130 18	51·8	1006·6	1013·0	— 0·9	284·1	287·4	3rd, 24th	275·8	271·9	9th	279·9	*279·9*	+1·0	203	— 42
311	Barkerville	53 2	121 35	1274	865·0	1012·0	— 0·7	280·2	288·6	25th	268·0	257·4	6th	274·1	*273·8*	—0·6	14	+ 2
312	Kamloops	50 41	120 29	385	970·4	1016·3	— 1·2	290·8	301·3	25th	275·8	266·9	7th	283·3	*283·3*	+0·4	12	— 10
313	Calgary	51 2	114 2	1045	892·1	1013·5	+ 0·6	286·3	300·2	16th	268·6	254·1	6th	277·4	*276·7*	—0·2	25	— 10
314	Fort Chipewyan	58 42	111 10	218	985·8	1013·4	— 2·2	273·6	289·1	25th	261·9	241·3	5th	267·7	*268·6*	—3·7	5	+ 1
315	Prince Albert	53 10	105 38	442	961·3	1015·4	+ 1·2	283·6	298·6	17th	266·9	249·1	6th	275·2	*274·7*	—0·4	29	+ 13
316	Qu'Appelle	50 30	103 47	645	935·9	1013·4	— 1·2	281·3	298·6	28th	269·1	251·9	6th	275·2	*274·7*	—1·0	42	+ 1
317	Minnedosa	50 15	99 50	515	952·4	1015·8	— 0·6	278·0	294·7	28th	264·7	247·4	2nd	271·3	*271·1*	—4·8	20	— 5
318	Berens River	52 18	97 23	216	..	..	..	277·6	291·9	20th	261·4	238·6	13th	269·5	..	—2·3	18	— 5
318*a*	ϕPort Nelson	57 0	92 51	14·9	1013·3	1015·2	— 3·5	270·1	288·0	28th	257·3	235·8	14th	263·7	..	—1·7	..	— 16
319	Fort Hope	51 33	87 49	‡260	981·0	1014·6	— 3·2	277·4	294·7	19th	261·3	240·8	9th	269·4	*269·9*	—1·3	14	— 5
320	ϕMoose Factory	51 14	80 30	9·1	1013·8	1015·0	— 1·8	273·7	283·6	29th	258·7	244·7	14th	266·2	..	—4·5	10	— 3
321	Fort George	53 50	79 5	97·5	..	..	..	269·8	286·3	29th	258·3	244·1	4th, 13th	264·1	*264·4*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	274·7	284·7	28th	258·6	240·8	10th	266·7	..	—4·2	38	+ 26
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	274·3	281·9	28th	264·9	252·4	11th	269·6	..	—2·1	96	— 57
326	ϕBelle Isle	51 53	55 23	130	992·2	..	..	276·6	274·7	23, 29, 30	265·9	254·7	2nd	268·2	*268·4*	—2·0	12	— 2
										Sea Temp.							
331	55°—50° N. 30°—25° W.	††52 52	††27 26	§(34)	..	1008·9	..	..	..	281·3|—1·1	..	..	..	279·9	..	..	..	..
333	53°—48° N. 20°—15° W.	††49 38	††17 36	§(45-46)	..	1003·7	..	..	..	283·7|—0·3	..	..	..	281·9	..	..	..	..
333*a*	62°—57° N. 20°—15° W.	††59 10	††17 17	§(63)	..	..	..	..	..	281·1|—0·2	..	..	..	280·5	..	..	107	— 5
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1005·5	— 7·6	283·6	285·8	30th	278·2	274·1	1st	280·9	281·1	—0·7	46	— 1
335	Aberdeen	57 10	W 2 6	26·8	..	1010·1	— 2·4	280·5	285·2	25th	276·6	273·0	28th	278·6	278·5	+0·7	35	— 20
336	ϕGreenwich	51 28	0 0	46·3	..	1007·7	— 6·5	286·3	293·0	12th	277·1	272·4	10th	281·7	281·2	0·0	28	— 16
337	Uccle	50 48	E 4 22	100	996·3	1008·4	— 5·7	288·2	296·8	11th	276·5	271·3	10th	282·3	281·5	+0·6	30	— 22
338	De Bilt	52 6	5 11	3·0	1008·0	1009·0	— 4·8	289·4	296·3	13th	275·3	269·6	10th	280·9	280·8	—0·2	23	— 16
338*a*	Hamburg	53 33	9 58	40·3	1006·3	1011·2	— 2·0	284·3	294·0	12th	276·4	271·7	2nd	280·3	*280·3*	—0·2	51	+ 17
339	‡Copenhagen(Meteor. Inst.)	55 41	12 36	5·0	1012·3	1012·9	— 0·8	281·1	288·1	12th	274·2	270·1	2nd	278·1	*277·7*	—0·4	..	..
340	Potsdam	52 23	13 4	84·9	1000·7	1011·1	— 3·0	285·2	294·9	12th	275·1	268·4	2nd	280·1	279·9	—0·8	51	+ 17
340*a*	Uppsala	59 51	17 38	24	1011·8	1014·8	+ 1·5	280·3	286·3	30th	269·8	265·2	1st	275·1	275·1	—1·1	13	— 6
341	Warsaw	52 13	21 3	89·9	1001·6	1012·8	— 2·0	284·1	296·0	27th	274·7	267·2	2nd	279·4	279·3	..	57	+ 30
342	Tartu (Ülikooli)	58 23	26 43	74·5	1004·6	1014·0	+ 0·1	278·8	292·5	27th	270·5	266·9	13th	274·7	274·1	—2·3	27	— 2
343	Petrograd	59 56	30 16	4·8	1013·1	1013·7	— 0·8	276·1	281·4	27th, 28th	269·4	262·1	1st	272·8	*272·7*	—2·7	19	— 2
344	Kiiv	50 27	30 30	183	992·0	1014·4	— 0·2	283·4	294·3	27th	275·1	264·6	1st	279·2	*278·6*	—1·4	25	— 6
344*a*	Moscow	55 50	37 33	167	992·7	1013·6	— 2·9	278·2	288·7	28th	269·5	257·3	1st	273·8	*273·6*	—2·9	28	— 11
345	Saratov	51 33	45 57	122	1001·1	1016·4	— 0·8	279·4	296·6	24th	270·7	261·2	1st	275·0	*274·6*	—2·5	5	+ 1
346	Kazan	55 47	49 8	79·9	1004·0	1014·1	— 5·0	276·8	285·0	30th	267·7	260·7	7th	272·2	*271·8*	—4·7	38	+ 11
347	Orenburg	51 45	55 6	109	1004·2	1018·0	— 3·4	..	292·8	25th, 30th	266·7	254·7	3rd, 5th	..	*272·2*	—5·1	12	+ 1
348	Perm	58 1	56 16	163	992·6	1013·2	— 6·0	275·2	285·7	21st	266·8	256·6	6th	271·0	*270·9*	—4·4	39	+ 23
349	Sverdlovsk	56 50	60 38	281	978·6	1013·7	— 5·2	276·2	289·1	21st	266·7	258·3	10th	271·4	*271·3*	—3·4	40	+ 15
350	Tobolsk	58 12	68 14	108	1000·7	1014·4	— 5·1	276·8	287·2	21st	266·4	254·4	5th	271·6	*271·3*	—2·5	31	+ 5
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	280·5	295·4	24th, 25th	268·1	251·9	5th	274·3	*274·3*	+0·1	19	— 1
352	Omsk	55 1	73 19	108	1004·0	1017·7	— 3·0	277·4	290·7	25th	267·6	256·3	5th	272·5	*272·4*	—0·8	13	— 3
353	Barnaoul	53 20	83 48	162	1000·2	1020·4	— 1·3	282·6	298·0	26th	270·7	257·9	6th	276·6	*276·4*	+2·5	14	+ 3
354	Tomsk	56 30	84 58	122	1003·0	1018·4	— 1·7	..	285·5	25th	268·2	254·8	2nd	..	*272·9*	+0·9	32	+ 9
355	ϕMinousinsk	53 43	91 41	248	989·5	1020·2	— 0·6	..	298·4	26th	271·5	264·0	6th	..	*277·6*	+2·2	12	— 1
356	Eniseisk	58 27	92 10	77·6	1007·9	1017·8	0·0	..	282·3	25th	264·4	240·0	2nd	..	*270·9*	—0·7	15	+ 1
357	Irkutsk	52 16	104 19	467	962·7	1020·0	+ 0·3	281·0	295·2	26th	268·0	256·6	3rd	274·5	274·7	+1·3	11	+ 1
358	Kirensk	57 47	108 7	263	985·5	1018·8	+ 2·4	..	286·5	30th	262·5	244·1	2nd	..	*270·1*	—0·8	25	— 1
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
300	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	967·4	1015·1	+ 3·8	274·9	290·0	27th	259·8	245·3	7th	267·4	*268·0*	—3·6	..	— 11
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	994·0	1011·7	+ 0·2	280·0	298·6	28th	268·9	260·2	5th	274·4	*274·1*	—1·3	14	— 2
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	993·8	1004·8	— 4·3	..	..	..	268·4	263·4	5th	..	*270·2*	—0·8	68	+ 3
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 106 and 107. †Estimates not based on at least six equally-spaced observations each day are in *italics* ‡*See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
411	Victoria, B.C.	48 24	123 19	70·1	1007·1	1015·7	— 1·8	286·3	294·1	15th	279·1	276·9	9th	282·7	282·1	+0·9	18	— 21
412	Portland, Oregon	45 32	122 41	46·6	1010·3	1015·6	— 2·4	290·5	302·4	15th	280·2	276·9	4th	285·3	*285·2*	+1·6	48	— 29
413	Macleod	49 44	113 24	953	..	..	..	284·5	302·4	18th	271·1	257·4	7th	277·8	*278·0*	—1·1	37	+ 20
414	Helena	46 34	112 4	1253	870·9	1013·9	— 1·1	284·5	296·9	17th	272·6	259·1	7th	278·6	*278·4*	—0·9	30	+ 2
414*a*	Salt Lake City	40 46	111 54	1329	864·5	1012·5	— 0·8	286·1	294·1	17th	276·7	273·0	22nd	281·4	*281·6*	—1·6	90	+ 37
415	Cheyenne	41 8	104 48	1856	809·1	1012·5	— 1·2	283·6	294·1	18th	270·9	265·2	23rd	277·2	*277·6*	—0·8	83	+ 36
415*a*	North Platte	41 8	100 45	860	914·7	1014·2	— 0·2	289·2	303·6	19th	274·7	268·6	8th	281·9	*281·7*	—0·2	51	— 3
417	Bismarck	46 47	100 38	510	954·0	1015·2	— 0·5	284·5	300·2	18th	271·6	264·1	2nd	278·1	*277·9*	—1·1	51	+ 10
418	Winnipeg	49 53	97 7	232	986·5	1015·4	— 1·2	280·2	295·2	30th	268·0	250·2	3rd	274·1	*273·9*	—2·1	19	— 17
418	Duluth	46 47	92 6	345	972·9	1015·2	— 1·0	280·8	299·1	19th	271·3	261·3	8th	276·1	*275·7*	—0·3	28	— 24
419	Port Arthur	48 27	89 12	196	990·7	1015·1	— 1·4	278·6	292·4	29th	268·6	251·9	1st	273·6	*273·7*	—0·8	8	— 30
420	Chicago	41 53	87 37	251	984·7	1015·2	— 0·7	285·8	299·1	20th	276·4	266·3	1st	281·1	*280·8*	—0·5	35	— 37
421	Toronto	43 40	79 24	116	1000·0	1014·3	— 1·8	283·6	299·9	20th	273·9	258·0	1st	278·8	278·5	+0·2	59	+ 1
422	ϕNew York (Central Park)	40 47	73 58	47·4	1009·2	1015·0	— 0·6	288·6	303·6	21st	277·8	261·9	1st	283·2	283·1	+0·5	60	— 25
424	St. John, N.B.	45 17	66 4	36·2	1007·9	1012·4	— 1·1	278·8	290·5	21st	271·4	259·1	1st	275·1	274·9	—1·8	127	+ 38
424*a*	S.W. Point, Anticosti	49 24	63 33	9·1	1010·1	1011·3	— 1·4	274·1	279·7	23rd	269·0	259·7	1st	271·6	*272·1*	—0·6	55	+ 10
424	Sable Island (Main Station)	43 57	60 6	7·6	1011·7	1012·7	— 1·3	276·9	281·9	30th	272·4	267·4	2nd	274·7	*274·5*	—1·3	54	— 38
425	Port aux Basques	47 35	59 10	9·1	1010·6	1011·8	— 1·7	274·7	278·6	27th, 28th	269·1	259·1	2nd	271·9	*271·7*	—1·7	93	— 4
426	St. John's, Newfoundland	47 34	52 42	48·8	1005·1	1011·2	— 0·5	276·9	281·9	27th	270·2	260·8	2nd	273·6	*273·3*	—1·0	93	— 16
										Sea Temp.							
430	50°—45° N. 35°—30° W.	††47 12	††32 47	§(46)	..	1017·5	..	..	..	284·8|—0·8	..	..	..	283·6	..	..	..	..
435	Madrid	40 24	3 41	667	933·8	1011·6	— 3·2	288·2	296·4	30th	278·0	273·6	9th	283·1	*282·2*	—1·6	36	— 5
436	Nantes	47 15	W 1 34	36·5	1002·8	1007·4	— 7·2	288·0	294·2	11th	279·0	275·0	7th	283·5	283·4	+0·5	74	+ 23
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1002·3	1008·7	— 5·2	288·0	296·8	11th	277·8	273·1	9th, 10th	282·9	282·9	+0·3	38	— 6
438	Marseille	43 18	5 23	75	..	1008·0	— 3·9	290·9	295·7	30th	280·8	276·6	18th	285·9	*285·7*	—0·6	96	+ 41
439	Zürich	47 23	8 33	493	951·6	1009·8	— 4·6	287·5	296·9	12th	276·5	272·2	10th	282·0	281·3	—0·3	86	— 4
440	Rome	41 54	12 27	45·5	1005·0	1010·2	— 2·6	291·7	296·4	13th	282·3	278·0	4th	287·0	*286·8*	+0·1	82	+ 16
441	Vienna	48 15	16 22	203	986·2	1010·8	— 2·8	285·2	292·4	27th	277·2	270·3	2nd	281·2	281·0	—1·9	59	+ 6
442	Budapest	47 31	19 2	130	995·2	1011·0	— 2·0	287·7	296·3	14th	278·3	269·9	2nd	283·0	282·7	—0·7	60	+ 2
442	ϕSofia	42 42	23 20	550	948·4	1013·0	— 0·8	288·9	299·9	28th	278·2	266·8	7th	283·5	*283·1*	0·0	30	— 22
442	Bucharest	44 25	26 6	82	1003·1	1013·0	— 0·5	289·9	303·0	28th	278·0	267·5	2nd	283·9	283·6	—0·6	48	+ 4
443	Odessa (Observatory)	46 26	30 46	42·8	1009·1	1014·3	— 0·7	283·6	295·4	24th	276·7	267·1	2nd	280·2	*279·9*	—1·7	15	— 10
444	Kharkiv (University)	50 0	36 14	140	998·2	1015·0	— 1·4	283·3	290·9	23rd	274·4	264·7	1st	278·8	*278·5*	—1·5	15	— 20
445	ϕNovorossiisk	44 44	37 49	37·1	1011·2	1015·7	+ 0·9	286·0	294·5	30th	278·4	271·5	..	282·5	*282·4*	—1·1	11	— 34
446	ϕTiflis	41 43	44 48	404	968·6	1016·7	+ 0·6	286·8	299·7	24th	278·2	269·7	1st	282·5	*282·2*	—2·2	46	— 10
447	Astrakhan	46 21	48 2	— 20	1019·5	1017·1	— 0·2	285·4	296·5	25th	275·2	268·1	1st	280·3	*280·9*	—0·9	12	0
448	Fort Alexandrovsk	44 31	50 7	— 23·0	1019·9	1017·1	+ 1·2	284·5	293·6	21st	277·3	269·2	1st	280·9	*280·6*	—2·2	5	— 9
449	ϕKrasnovodsk	40 0	52 59	— 4·6	1016·7	1016·1	+ 0·7	288·7	297·6	20th	281·3	275·8	1st	285·0	*284·8*	—1·9	4	— 21
451	Kasalinsk	45 46	62 7	66·7	1009·2	1017·4	— 1·4	..	..	..	275·7	268·3	2nd	..	*281·9*	+0·1	18	+ 4
451	Tashkent	41 20	69 18	478	959·9	1015·8	0·0	292·4	300·4	8th	281·9	275·4	12th	287·2	*286·4*	—0·9	68	+ 14
452	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	919·5	1016·6	— 0·8	288·8	297·2	25th	278·5	273·0	14th	283·6	*283·2*	+0·5	99	+ 6
462	ϕMoukden	41 48	123 23	43·8	1010·0	1015·4	+ 0·9	286·5	299·0	26th	274·6	269·7	8th	280·5	280·2	—1·1	48	+ 20
463	Joshin	40 40	129 11	31·9	1010·0	1013·9	+ 0·2	283·6	292·6	29th	275·1	269·7	6th	279·3	278·7	—1·0	110	+ 85
464	Yuki	42 20	130 24	65·6	1005·3	1013·4	+ 0·1	282·7	292·3	24th	274·0	267·9	6th	278·3	278·1	0·0	64	+ 25
465	Vladivostok	43 7	131 53	128	997·5	1013·4	— 1·0	279·6	287·5	26th	273·7	268·5	5th	276·6	*276·7*	—0·8	65	+ 34
465	Ochiai	47 20	142 47	27·4	1004·1	1007·5	— 4·1	277·6	289·2	28th	268·6	259·6	11th	273·1	273·5	—0·1	44	— 5
466	Gemuro	43 20	145 35	26·7	1007·9	1011·2	— 2·5	279·7	291·1	30th	272·1	267·9	19th	275·9	276·0	+0·2	46	— 27
466*a*	Syana	45 14	147 53	39·3	1004·8	1009·7	— 3·5	278·0	290·9	28th	270·9	263·1	7th	274·5	274·5	+0·1	40	— 24
		N.	E.															

Between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
508	35°—30°N. 145°—140°W.	††31 35	††141 33	§(15)	..	1020·6	— 4·4	..	..	Sea Temp. 290·2 | +1·1	..	..	..	289·7	..	+1·1	..	..
511	San Francisco	37 48	122 26	47·2	1010·3	1016·2	— 1·7	289·9	299·1	14th	282·8	280·8	3rd	286·4	*285·5*	+1·0	100	+ 60
512	San Luis Obispo	35 18	120 39	61·3	1009·8	1017·3	— 0·3	291·1	301·3	14th	281·1	275·2	23rd	286·1	*284·9*	+0·1	116	+ 80
513	San Diego	32 43	117 10	26·5	1012·6	1015·6	— 0·1	290·9	293·6	5th	285·2	281·9	23rd	288·0	*287·7*	+0·4	27	+ 11
514	Modena	37 48	113 54	1670	829·6	1010·5	— 1·5	287·4	294·7	16th	272·3	266·9	7th	279·9	*279·8*	—0·8	31	+ 8
515	Santa Fé	35 41	105 57	2138	783·7	1009·8	— 1·1	286·7	292·4	29th	274·5	270·2	4th	280·6	*280·7*	—0·8	41	+ 18
516	Denver	39 45	105 0	1613	833·0	1010·8	— 1·7	287·4	297·4	18th	274·8	270·2	23rd	281·1	*281·5*	—0·5	15	— 39
518	Abilene	32 23	99 40	530	951·7	1012·5	— 1·0	296·3	304·1	7th	284·8	276·9	5th	290·6	*290·1*	—0·2	146	+ 80
519	Saint Louis	38 38	90 12	173	994·2	1014·9	— 0·5	291·3	301·3	30th	280·2	269·7	1st	285·8	*285·7*	—0·4	81	— 15
520	Mobile	30 41	88 2	17·4	1014·0	1015·9	— 0·6	297·6	303·6	26th	288·2	276·3	1st	292·9	*292·4*	+1·0	112	— 13
521	Nashville	36 10	86 47	166	996·9	1016·9	+ 0·2	293·6	301·9	22nd	281·6	269·1	1st	287·6	*287·4*	—0·3	108	— 4
522	Charleston	32 47	79 56	14·6	1015·1	1016·9	— 0·3	295·3	306·9	23rd	286·8	275·8	1st	291·0	*291·3*	+0·3	27	— 47
523	Washington	38 54	77 3	34·1	1011·7	1015·9	— 0·3	291·0	302·4	21st	279·0	263·6	1st	285·0	*285·3*	0·0	100	+ 18
524	Bermuda	32 17	64 46	46·0	1013·2	1018·6	+ 1·3	295·2	298·0	17th	288·6	285·8	1, 24, 28	291·9	*291·7*	0·0	103	+ 1
525	Santa Cruz (Flores)	39 27	31 9	40	1019·3	1024·3	+ 3·4	291·1	294·3	25th	285·1	281·2	17th	288·1	*288·0*	0·0	111	0
525	ϕHorta	38 32	28 38	65	1016·0	1023·8	+ 2·8	290·6	294·9	26th	285·2	282·6	17th	287·9	287·8	—0·6	28	— 48
525*a*	Ponta Delgada	37 44	25 40	22	1020·2	1022·7	+ 1·4	289·9	292·8	3rd	286·1	283·8	1st	288·0	287·8	—0·3	..	..
525*a*	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	44	— 36
524	Madeira (Funchal)	32 38	16 55	25	‡1017·7	‡1020·7	+ 1·8	293·1	295·3	7th	287·4	284·9	12th	290·2	*290·3*	+1·1	36	— 13
525	Lisbon	38 43	9 9	95	1001·5	1012·9	— 3·0	286·0	299·0	30th	283·0	279·8	5th	284·5	285·7	—1·5	87	+ 21
525	Melilla	35 17	2 59	40	1009·1	1013·8	— 1·5	293·8	297·0	4th, 19th	283·9	281·6	8th	288·9	*290·2*	—0·3	50	— 11
525*a*	Gibraltar	36 6	5 21	16·2	..	1013·8	— 2·9	290·8	294·7	16, 17, 29	284·1	280·8	8th	287·5	*287·3*	—1·6	191	+ 123
526	Colomb-Béchar	31 36	2 4	769	923·4	1009·8	..	296·3	303·0	17th	284·2	280·0	4, 7, 27	290·3	*289·9*	..	0	..
		N.	W.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 107 and 108. †

APRIL—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1006·7	1009·5	— 5·3	290·5	295·0	11th, 12th	282·0	278·0	18th	286·3	..	—1·7	98	+ 62
538	Algiers (Bouzaréah)	36 47	3 2	344	970·7	1011·2	— 3·8	289·5	297·5	11th	282·9	277·6	8th	286·2	*285·9*	—0·3	62	+ 10
539	ϕTunis	36 48	10 10	21	1008·1	1010·6	..	293·0	300·9	12th	283·7	278·8	7th	288·7	*287·8*	+0·2	69	+ 31
539*a*	Malta	35 53	14 30	56·4	..	1012·5	— 0·3	291·1	298·6	22nd	280·0	282·4	6th	288·6	*287·8*	—0·5	29	+ 7
540	Riposto	37 41	15 14	14·2	..	1014·4	— 0·8	290·9	295·2	22nd	284·8	282·0	6th	287·9	*287·5*	—0·7	38	+ 3
541	Athens	37 58	23 43	107	1000·8	1013·6	+ 0·3	292·1	300·4	28th	283·8	274·7	4th	288·0	288·2	+0·4	17	— 3
542	ϕAlexandria	31 12	29 53	32·0	1011·0	1014·7	+ 0·6	297·0	304·5	15th	287·4	284·3	8th	292·2	*291·5*	+0·1	0	— 3
543	Nicosia (P.W.D.)	35 9	33 22	159	993·1	1011·6	— 0·3	296·4	306·9	30th	281·7	275·2	8th	289·0	..	—0·5	17	— 9
544	Beirut	33 54	35 28	33·7	..	1013·2	— 0·2	293·6	300·7	30th	286·1	282·0	8th	289·9	*289·8*	—1·2	74	— 15
545	Hinaidi	33 17	44 29	32·3	..	1011·1	— 1·5	299·8	308·6	26th	285·8	278·9	9th	292·8	*291·9*	..	13	..
546	Lenkoran	38 46	48 52	—20·0	1019·6	1017·2	+ 1·3	..	292·7	25th	280·2	275·2	17th	..	*283·2*	—1·8	87	+ 9
547	Tehran	35 41	51 25	1220	..	..	..	291·1	299·1	26th	280·2	273·0	9th	285·7	*286·0*	—2·7	43	+ 43
548	Meshed	36 16	59 35	946	878·1	..	..	291·1	298·5	22nd	278·9	272·2	17th	285·0	..	—1·5	87	+ 1
549	Seistan	31 0	61 30	610	..	..	..	300·6	308·6	24th	287·0	281·3	13th, 20th	293·8	..	..	3	— 10
550	Quetta	30 11	67 3	1677	832·4	..	— 0·5	296·4	302·8	25th	280·5	274·7	12th	288·4	*288·7*	+0·1	17	+ 3
551	Peshawar	34 2	71 37	339	970·2	1008·7	— 1·7	304·9	312·4	30th	289·4	283·2	13th	297·2	*297·0*	+1·5	14	+ 26
551*a*	Lahore	31 34	74 20	214	981·5	1005·6	— 2·0	308·4	315·6	26th	292·0	286·5	15th	300·2	*300·2*	0·0	39	+ 24
552	Simla	31 7	77 8	2204	780·7	..	— 0·2	293·2	297·6	28th	285·8	280·8	13th	289·5	*289·8*	+1·4	25	— 4
552*a*	Leh	34 10	77 42	3503	667·2	..	+ 0·9	288·3	294·1	27th	273·2	268·9	14th	280·7	*280·1*	+1·6	2	— 36
559	Hankow	30 35	114 17	37·0	1010·7	1015·1	— 0·5	293·9	305·9	1st	285·6	280·0	19th	289·7	*289·3*	—0·1	117	+ 19
560	ϕTientsin	39 10	117 10	5·0	1015·5	1016·1	+ 0·7	292·1	301·0	25th	279·9	273·2	19th	286·0	*285·6*	—0·4	31	— 33
561	ϕShanghai (Zi-ka-Wei)	31 12	121 26	7	..	1015·6	+ 0·1	291·5	303·4	30th	282·4	274·8	13th	287·0	286·1	—0·4	127	+ 45
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1007·0	1016·2	+ 0·9	285·9	292·6	27th	277·9	274·3	20th	281·9	281·3	—1·2	111	+ 45
562*a*	Nagasaki	32 44	129 52	133	999·6	1015·5	+ 0·1	291·5	296·6	30th	282·7	276·7	7th	287·1	286·9	—0·3	249	+ 20
563	Kyoto	35 1	135 44	42·9	1010·5	1015·7	+ 0·3	291·5	300·4	30th	279·4	270·9	7th	285·5	285·2	0·0	179	— 6
564	Tokyo	35 41	139 46	5·8	1014·5	1015·2	— 0·2	289·9	298·4	30th	280·4	272·2	7th	285·1	284·9	—0·6	116	+ 21
565	Kanayama	37 53	140 46	24·6	1011·8	1014·8	— 0·8	288·3	303·3	30th	276·1	266·5	7th	282·2	281·9	—0·7	120	+ 40
566	Miyako	39 38	141 59	30·4	1010·1	1013·8	— 0·9	287·2	302·2	30th	274·9	268·4	7th	281·1	280·6	—0·6	146	+ 68

APRIL—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		N.	W.															
601	Midway Island	28 15	177 22	5·8	..	1019·6	— 0·7	297·7	300·8	20th	288·4	284·7	11th	293·1	*292·5*	..	24	..
605	Honolulu	21 19	157 52	11·6	1015·5	1016·8	— 1·3	298·4	299·7	..	293·6	291·3	..	296·0	*295·8*	+0·2	86	+ 28
614	La Paz	24 10	110 20	12	1010·3	1011·7	..	302·4	308·2	10th	286·4	283·0	12, 24, 25	294·4	..	..	0	..
615	Chihuahua	28 38	106 4	1423	856·2	1006·9	..	299·6	303·0	6th, 30th	284·8	281·0	4th	292·2	*293·9*	+0·5	0	..
616	ϕLeon	21 7	101 41	1809	822·5	1009·1	+ 1·7	303·1	307·0	30th	284·7	280·7	1st	293·9	*294·8*	+0·4	0	..
616*a*	ϕMonterry	25 40	100 18	528	951·0	1010·2	— 0·6	300·5	310·4	28th	290·4	283·9	1st	295·5	*295·3*	—0·2	35	..
617	Tulancingo	20 5	98 22	2181	789·6	..	..	300·9	304·1	28th	283·4	281·0	14th, 15th	292·1	*289·9*	—0·7	43	..
618	Galveston	29 18	94 50	16·5	1012·6	1014·5	— 0·8	296·2	301·9	29th	291·3	283·0	1st	293·8	*293·3*	+0·5	113	..
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1015·6	— 0·3	298·3	303·0	26th	289·6	278·6	1st	293·9	*294·0*	+0·9	114	..
619	Merida, Yuc.	20 58	89 38	22	1010·3	1012·8	— 1·3	306·6	309·4	28th	294·8	291·8	20th	300·7	*299·9*	+0·7	1	..
620	Havana	23 8	82 21	24·3	..	1016·2	+ 0·1	302·3	305·0	29th	294·7	292·0	20th	298·5	*298·3*	+1·2	33	..
620*a*	Key West	24 33	81 48	6·7	1015·0	1015·6	— 0·7	301·7	303·6	14th	295·3	291·3	19th	298·5	*298·2*	+1·2	27	..
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1018·6	+ 1·4	..	..	..	293·6	..	..	..	‡*297·9*	+0·5	73	..
622	Watling Island	24 6	74 26	33·5	1014·1	‡1018·0	+ 1·4	..	301	sev. dates	..	297	sev. dates	..	*299·1*	..	..	..
633	Izaña	28 19	16 30	2367	764·8	..	..	280·5	288·5	30th	272·7	266·0	3rd	276·6	*276·5*	—2·7	37	..
634	La Laguna	28 28	W16 20	547	955·0	1019·0	+ 2·9	289·4	293·8	16th	283·5	281·8	10th	286·5	*286·0*	—0·9	71	..
641	Siwa	29 12	E25 29	—23	1017·3	1014·4	..	302·2	310·9	27th, 28th	283·8	277·9	2nd	293·0	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	1000·2	1013·6	+ 0·6	300·7	310·7	30th	286·3	281·2	14th	293·5	*293·6*	—0·3	0	..
643*a*	Aswan	24 2	32 53	99·6	999·9	1011·4	+ 0·3	307·6	318·0	30th	290·4	286·0	3rd	299·0	*298·7*	0·0	..	..
644	Tor	28 14	33 37	1·9	1011·8	1012·0	+ 1·0	300·2	307·2	6th	287·4	283·0	3rd	293·8	*293·9*	—0·5	0	..
647	Bushire	28 59	50 53	4·3	1010·1	1010·8	— 0·7	298·6	306·8	21st	291·4	288·2	16th	295·0	*294·3*	—1·4	19	..
648	Jask	25 44	57 47	4·0	1008·7	1009·2	— 1·1	304·1	307·3	1st, 3rd	296·1	293·3	20th	300·1	*299·4*	+0·7	43	..
649	Karachi	24 53	66 57	4·0	1007·8	1008·3	— 1·1	302·6	309·0	13th	296·1	293·5	13th	299·3	*298·6*	0·0	0	..
650	Jacobabad	28 17	68 29	56·7	1000·6	1007·0	— 0·6	310·3	316·1	26th	294·1	288·2	21st	302·2	*301·7*	—0·1	5	..
651	Jaipur	26 56	75 52	436	959·3	1007·1	— 0·9	311·5	315·8	27th	294·1	288·6	15th	302·8	*302·8*	—0·4	8	..
652	Nagpur	21 8	79 5	310	972·8	1006·7	— 1·2	313·4	317·9	28th	297·5	293·6	24th	305·5	*305·3*	+0·2	0	..
653	Allahabad	25 25	81 51	94·2	995·6	1005·6	— 1·3	313·5	316·5	30th	295·9	291·8	14th	304·7	*304·4*	+1·0	90	..
653*a*	Darjeeling	27 3	88 18	2205	774·9	..	— 0·7	289·7	292·3	6th	283·2	280·0	15th, 16th	286·4	*286·7*	+0·3	21	..
654	Calcutta	22 36	88 23	6·4	1005·8	1006·6	— 1·6	307·9	311·6	23rd	298·0	293·0	6th	302·9	*302·7*	+0·2	..	..
655	Gauhati	26 8	91 41	59·7	1002·1	1009·0	— 1·2	303·2	308·6	7th	293·9	290·1	16th	298·6	*297·5*	+0·8	161	..
655*m*	Cherrapunji	25 15	91 42	1313	866·7	..	— 1·5	295·6	303·9	24th	288·8	285·7	16th	292·2	*291·5*	+1·6	822	..
655*a*	Akyab	20 11	92 56	6·1	1008·2	1009·0	— 1·6	305·3	306·9	29th	296·7	292·3	16th	301·0	*300·7*	—0·5	28	..
656	Mandalay	21 59	96 0	76·2	1000·1	1008·6	— 0·6	310·6	314·1	23rd	297·8	294·7	1st	304·2	*303·7*	—1·1	47	..
656*a*	Tengyueh	25 2	98 33	1626	833·7	1007·1	— 0·4	294·4	298·0	5th	282·2	278·0	16th	288·3	*287·9*	0·0	66	..
657	ϕPhu Lien	20 48	106 38	116	999·5	1010·0	— 0·5	301·4	305·5	11th	294·0	288·4	19th	297·7	296·6	+1·1	109	..
658	ϕMoncay	21 31	107 51	9·0	1009·5	1010·5	— 0·4	299·7	303·1	18th	292·0	283·9	20th	296·3	*296·5*	+0·6	352	..
659	ϕHongkong	22 18	114 10	33·2	..	1012·0	— 0·6	297·5	301·2	5th	293·3	291·1	13th	295·4	294·9	+0·6	213	..
660	ϕAmoy	24 27	118 4	ca.3	1012·5	1012·9	— 0·8	295·2	300·8	11th	289·9	284·7	13th	292·5	*292·3*	+0·1	124	..
661	Taihoku, Formosa	25 2	121 31	9·3	1012·8	1013·0	— 0·1	299·3	303·7	11th	289·9	283·5	1st	294·6	294·0	+0·2	197	..
661*a*	Basco	20 28	121 59	18·7	..	1010·5	— 0·4	301·6	303·9	24th	296·3	290·4	1st	298·9	*298·8*	—0·3	153	..
662	ϕNaha	26 13	127 41	10·5	1013·9	1015·1	+ 0·6	298·8	302·5	24th	291·0	284·6	2nd	294·9	294·7	+0·8	153	..
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1016·8	1017·3	+ 1·5	297·5	301·9	26th	291·5	287·9	15th	294·5	294·2	+0·6	46	..
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

APRIL—ZONE 7.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	954·3	1009·8	..	308·6	310·5	3rd	289·2	285·7	14th	298·9	*297·0*	+0·1	0	..
716	Morelia	19 42	101 7	1923	810·3	1008·9	..	299·2	303·3	30th	285·5	282·2	14th	292·3	*292·2*	0·0	0	..
717	Mexico, Tacubaya	19 24	99 12	2309	774·8	..	+ 0·5	300·5	304·5	29th	281·6	278·3	1st	291·1	290·1	+0·3	37	+ 17
718	ϕSalina Cruz	16 12	95 12	56	1004·2	1010·6	— 1·2	303·3	308·3	25th	298·0	295·2	2nd	300·7	*300·7*	+0·4	39	+ 33
719	ϕSan Salvador	13 42	89 12	682	937·2	1012·6	+ 0·8	306·8	308·5	28th	290·3	287·0	14th	298·5	*296·8*	—0·5	6	— 52
720	Belize	17 29	88 12	5·2	1011·9	1012·6	— 0·8	302·6	303·6	19th, 28th	297·1	294·1	19th	299·9	*299·5*	0·0	1	— 43
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·2	+ 0·5	302·9	304·8	20th	293·7	292·3	6th	298·3	*298·2*	—0·1	56	— 18
722	Port au Prince	18 33	72 20	37·4	1010·8	1015·1	+ 0·4	303·8	306·7	17th	294·4	292·0	10th	299·1	*298·6*	—0·5	222	+ 58
723	Caracas	10 30	66 56	1042	899·5	1014·2	+ 0·4	299·1	302·0	26th	287·9	283·4	3rd	293·5	*291·8*	—1·3	9	— 31
724	Montserrat	16 41	62 9	39·6	1011·0	1015·7	+ 0·7	302·8	305·2	19, 25, 27	294·4	293·0	7, 12, 14	298·6	*298·1*	—0·8	81	— 7
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·8	‡1013·7	+ 0·8	301·6	302·4	10, 13, 26	295·5	294·1	3, 7, 8	298·5	*298·1*	—0·5	46	— 8
725	Barbados	13 8	59 36	55·2	..	1014·5	+ 0·4	301·9	302·8	28th	294·4	292·2	23rd	298·1	*297·7*	—0·8	43	+ 1
731	São Vicente, C. Verde Is.	16 54	25 4	11	1013·8	1015·1	+ 0·6	296·3	297·5	17th, 18th	290·3	289·5	24th	293·3	*294·4*	—0·6	0	— 1
733	Sau Tiago, C. Verde Is.	14 54	23 31	34	1011·1	1015·1	+ 0·8	298·1	302·6	16th	292·5	291·2	9th	295·3	*295·3*	—1·0	0	— 10
734	Bathurst	13 27	16 34	1·8	1013·7	1014·0	+ 0·4	304·1	310·8	15th	291·2	289·7	2nd	297·7	*297·5*	0·0	0	— 1
735	M'Carthy Island	13 33	14 45	1·1	..	..	..	313·2	316·3	20th	295·1	289·1	24th	304·1	..	—0·2	0	— 28
736	Niénébalé	12 57	7 26	300	..	..	..	309·0	313·4	17th	294·7	291·0	17th	301·9	..	..	0	— 24
737	Timbuktu	16 43	W 3 2	270	..	..	..	309·2	314·9	11th	293·5	289·2	16th	301·4	*301·3*	—3·3	41	..
738	ϕSokoto	13 2	E 5 14	353	..	..	..	313·1	315·8	28th	298·3	294·7	21st	305·7	*305·3*	—0·1	15	+ 5
739	Kaduna Capital	10 32	7 25	637	943·2	1013·2	+ 0·8	305·3	308·0	6th	294·6	291·9	4th, 26th	299·9	*299·4*	—1·0	142	+ 49
740	Hadejia	12 40	10 5	?	..	..	..	312·7	316·3	29th	295·6	290·8	28th	304·2	*303·8*	—2·2	1	— 8
741	ϕMaiduguri	11 47	13 11	361	..	..	..	315·3	318·6	28th, 29th	298·1	294·7	3rd, 13th	306·7	*306·3*	+0·4	3	— 7
742	Fl Fasher	13 32	25 18	730	..	..	..	311·1	313·4	7th	291·8	286·4	26th	301·4	*300·6*	..	0	..
743	Fl Obeid	13 11	30 14	569	945·2	1007·4	+ 0·1	310·8	313·5	7th	293·4	287·8	24th	302·1	*302·4*	+1·0	1	0
743*a*	ϕKhartoum	15 37	32 33	390	963·9	1007·0	+ 0·2	310·7	315·2	7th	294·2	289·8	16th, 23rd	302·5	*302·9*	—1·3	0	0
744	Port Sudan	19 37	37 13	5·5	1009·0	1009·6	— 0·2	304·2	309·1	30th	293·7	289·4	5th	299·0	*298·6*	—0·6	0	— 1
745	Berbera, Somaliland	10 22	45 2	9·5	1009·6	1010·7	— 0·8	304·7	305·8	sev. dates	297·7	295·2	25th	301·2	*301·3*	—0·4	35	+ 24
746	Aden	12 45	45 3	28·7	1007·1	1010·3	— 1·1	303·6	307·3	7th	298·3	293·6	7th	300·9	*299·9*	—0·6	13	+ 8
751	Bombay	18 54	72 49	11·3	1008·3	1009·6	— 1·2	305·2	306·9	5th	298·4	297·7	5th	301·8	300·9	+0·4	1	— 1
752	Kodaikanal	10 14	77 28	2343	770·3	..	— 1·4	294·7	297·2	18th	284·4	281·9	2nd	289·6	*288·6*	+0·4	103	— 5
753	Bangalore	12 59	77 38	921	909·0	1008·1	— 1·3	306·8	308·7	28th	293·6	289·6	3rd	300·2	*299·5*	—0·1	76	+ 42
754	Madras	13 4	80 14	6·7	1007·4	1008·3	— 1·8	307·4	312·6	27th	298·5	295·4	2nd	302·9	*302·5*	+0·6	0	— 13
755	Vizagapatam	17 42	83 19	11·6	1006·5	1007·9	— 1·8	305·6	307·2	30th	299·9	297·9	2nd	302·7	*302·1*	0·0	0	— 18
755	Port Blair	11 40	92 40	18·0	1006·7	1008·7	— 2·1	305·2	306·6	17th	298·4	297·2	30th	301·8	*301·2*	—0·8	91	+ 28
756	Rangoon	16 46	95 48	5·5	1009·3	1010·0	— 0·7	307·5	311·1	25th	297·2	295·8	3rd	302·3	*301·0*	—1·3	208	+166
757	Saigon (Cap St. Jacques)	10 20	107 5	180	988·3	1008·8	+ 0·2	304·1	308·4	24th	296·9	294·0	30th	300·5	*300·0*	—0·9	26	— 2
759	Nhatrang	12 15	109 12	3·6	1008·8	1009·2	— 0·7	304·2	306·3	24th	296·2	293·8	2nd	300·2	*299·7*	—0·1	35	+ 16
760	Bolinao	16 23	119 53	7·1	..	1007·5	— 1·4	308·7	311·2	17th	295·6	293·5	3rd	302·1	*301·4*	—0·2	38	+ 11
761	Vigan	17 34	120 23	12·2	..	1008·9	— 0·1	306·1	307·5	18th	297·4	294·6	2nd	301·7	301·3	+0·1	18	— 1
762	Manila	14 35	120 59	14·2	..	1009·5	— 0·4	307·5	309·1	29th	294·9	290·2	2nd	301·2	300·4	—0·7	14	— 19
762*a*	ϕOrmoc	11 0	124 36	5·6	..	1008·0	— 0·8	305·5	307·4	15th	295·0	292·1	3rd	300·3	*299·8*	+0·5	121	+ 46
763	Guam, Ladrone Is.	13 24	144 38	18·6	..	1008·4	— 1·0	303·0	304·4	12th	297·7	295·6	24th	300·3	*300·3*	+0·1	66	+ 20
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

Between Latitude 10° N. and 0°.

APRIL—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		N.	W.															
805	Fanning Island	3 54	159 23	5·3	1010·3	1010·9	..	304·6	307·1	5th	298·1	296·2	9th, 10th	301·3	*300·9*	+0·7	115	—295
822	Colon	9 23	79 23	11·0	..	1011·8	+ 0·4	303·3	304·7	19th	297·9	295·8	14th	300·6	*300·2*	+0·6	31	— 78
824	Bogota	4 36	74 5	2645	744·3	..	..	291·2	294·3	27th	283·7	279·9	10th	287·1	*286·8*	..	71	— 73
824*a*	Merida, Venez.	8 36	71 9	1641	‡841·2	..	— 0·2	296·6	298·5	27th, 30th	289·1	287·0	20th	292·8	*291·6*	—0·2	91	— 74
825	Ciudad Bolivar	8 9	63 33	38	1005·3	1009·6	..	306·5	308·0	21st	296·3	294·7	6th, 9th	301·4	*300·7*	..	3	— 19
826	?El Peru, Guayanavieja	7 19	61 49	220	? 985·9	?1010·9	+ 0·1	303·4	304·2	28th, 30th	292·3	290·9	1st	297·9	*297·2*	—1·2	53	— 20
826*a*	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1014·2	+ 1·6	302·3	303·0	21st, 30th	297·2	295·8	11, 13, 17	299·7	*299·4*	—0·3	41	—112
826*b*	Paramaribo	5 49	55 9	3·7	‡1013·6	‡1014·0	+ 1·1	302·2	304·0	20th	295·4	293·2	19th	298·8	*298·5*	0·0	226	+ 2
826*c*	Cayenne	4 56	52 21	6	..	..	..	302·4	304·0	sev. dates	296·5	295·0	8th	299·5	*298·5*	+0·1	552	+ 71
										Sea Temp.								
831	10°—5° N. 30°—25°W.	†† 7 36	†† 27 48	§(87–90)	..	1013·8	+ 1·6	..	..	297·6	—1·3	..	..	..	..	..	..	..
832	Konakri	9 31	13 43	16	..	..	..	305·3	307·4	24th	297·8	296·0	5th	301·5	*301·0*	0·0	16	— 10
834	Freetown, Sierra Leone	8 29	13 9	68·3	1003·1	1011·0	+ 0·2	304·0	306·9	6th	297·4	295·2	14th	300·7	*299·8*	—0·3	131	+ 28
835	Assuantsi	5 18	1 15	101	..	..	..	303·5	305·2	24, 25, 28	294·8	293·0	3rd, 4th	299·1	*298·5*	..	118	— 19
836	ϕAccra	5 33	W 0 12	27·0	1006·7	1009·8	..	304·3	305·8	25th	296·8	294·1	10th	300·6	*300·1*	+0·3	30	— 63
837	ϕLagos	6 27	E 3 24	4·6	1009·4	1009·9	+ 0·5	303·9	305·4	22nd	297·4	294·7	8th, 13th	300·7	*300·2*	—0·5	103	+ 9
838	ϕZungeru	9 48	6 10	130	..	..	..	308·1	311·3	28th	297·2	293·6	10th	302·7	*302·1*	—0·9	86	+ 28
841	ϕYola	9 12	12 30	259	..	..	..	309·3	313·0	24th	..	..	..	..	‡*302·2*	—0·9	107	+ 48
	Wau	7 42	28 3	440	..	..	..	308·2	313·0	22nd, 26th	294·6	290·0	22nd	301·4	*299·8*	—1·9	64	+ 11
843	Malakal (Kodok)	9 35	31 37	394	963·5	1007·0	+ 0·5	311·0	313·8	22nd	295·0	291·9	23rd	303·0	*301·8*	—1·1	13	— 9
844	Mongalla	5 11	31 47	439	958·0	1006·7	— 0·2	307·5	311·0	26th	..	..	..	..	..	..	133	+ 27
844*a*	ϕEntebbe	0 5	32 29	1171	884·5	1010·8	+ 1·1	298·0	300·8	29th	289·

APRIL—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
905	Malden Island	4 1	155 1	7·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
924	ϕManaos	3 8	60 1	43·8	..	..	..	302·0	304·6	9th	295·7	294·4	7th	298·8	..	..	362	+140
926	Taperinha	2 30	54 20	20·0	1009·3	1011·7	+ 0·3	302·8	305·3	26th	295·4	294·3	9th, 12th	299·1	*298·1*	+0·3	343	+ 31
927	ϕTuryassu	1 43	45 26	9·1	1009·2	1010·4	— 0·2	303·6	307·1	3rd	294·6	293·2	8th	299·1	*297·9*	—0·4	393	+ 14
928	ϕBarra do Corda	5 30	45 16	81·0	1000·5	1009·8	— 0·4	303·8	305·4	30th	294·6	291·9	21st, 22nd	299·2	*298·0*	—0·1	120	+ 37
929	Quixeramobim	5 16	39 15	207	989·9	1013·4	+ 1·9	302·3	306·4	1st	295·1	293·4	4th	298·7	*298·4*	—1·6	150	+ 37
930	ϕFernando Noronha	3 50	32 25	106	999·3	1011·2	— 0·2	300·5	302·8	2nd	296·3	294·1	8th	298·4	*298·4*	—0·6	351	— 23
934	Ascension Island	7 56	W14 25	16·8	1010·3	1012·1	— 0·8	304·1	305·2	6th	295·4	293·6	1, 2, 9	299·8	*299·7*	+0·3	10	+120
939	Loanda	8 49	E 13 13	59·3	..	..	..	302·2	305·2	24th	296·7	295·3	13th	299·5	299·2	+0·4	243	—134
940	Brazzaville	4 17	15 16	321	975·4	1011·4	+ 0·6	306·2	311·0	23rd	294·4	292·0	13th	300·3	*299·5*	+0·4	81	..
943	Masaka	0 21	31 47	?1280	..	..	..	302·7	304·7	11th	..	..	..	..	*292·9*	+0·2	225	+ 49
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	296·9	299·7	5th	288·0	285·2	9th	292·4	..	+0·8	412	+130
944*a*	Zanzibar	6 10	39 11	21·9	1010·1	1012·6	— 1·2	301·7	304·1	13th	298·1	296·2	20th	299·9	*299·3*	—0·3	560	+ 87
945	ϕLamu	2 16	40 50	3·0	..	..	..	303·5	304·7	4th, 16th	298·6	296·9	14, 17, 21	301·1	*300·7*	+0·2	75	+ 53
947	Seychelles, Port Office	4 37	55 27	4·6	1009·3	1009·8	— 0·8	302·8	304·1	8th	299·3	298·1	20th	301·1	*300·3*	+1·0	230	..
957	ϕPadang	0 56	100 22	6·7	1007·7	1008·4	— 1·8	..	..	..	..	..	..	..	..	..	653	+255
958	Batavia	6 11	106 50	8·0	1007·4	1008·3	— 1·0	304·2	305·9	30th	296·7	295·3	28th	300·4	299·8	+0·4	131	+ 84
958*a*	Pontianak	0 1	109 20	2·6	1008·8	1009·0	— 0·7	..	..	..	..	..	..	..	..	..	360	+ 61
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	68	—120
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	94	..
962	Amboina	3 42	128 10	4·2	1007·6	1008·0	— 1·0	..	..	..	..	..	..	..	..	..	613	+320
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	50	—231
965	Daru	9 4	143 13	7·6	..	..	..	..	..	..	..	..	..	..	..	..	128	—218
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	303·2	..	..	296·1	..	..	299·7	*299·2*	—0·7	15	— 89
967	Rabaul	4 9	152 12	20·7	..	1007·7	..	305·3	306·3	10, 14, 24	296·0	294·7	23rd	300·7	*300·1*	+0·4	108	—140
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
970	Ocean Island	0 52	169 35	54·0	1000·9	1007·1	— 0·7	303·9	305·2	12th	297·7	294·7	2nd	300·8	*300·1*	—0·1	232	+ 25

APRIL—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1002	Apia, Samoa	13 48	171 46	2	..	1011·1	+ 1·2	303·0	305·0	17th	296·1	295·2	3rd	299·5	299·4	+0·3	235	— 25
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	**301·6**	**305·8**	3rd	**294·7**	**292·4**	**24, 26, 28**	**298·1**	*297·8*	**—0·7**	184	— 18
1021	ϕArequipa	16 22	71 33	2452	761·2	..	+ 0·2	292·1	295·7	25th	282·8	277·8	4th	287·4	*287·8*	—0·2	5	..
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	288·2	284·0	1st, 30th	..	*293·4*	..	0	— 41
1023																		— 43
1024	Sucre, Bolivia	19 3	65 16	2850	729·6	..	..	291·7	295·5	20th	279·8	276·0	8th	285·7	*285·6*	..	4	..
1025	ϕCorumba	18 59	57 39	116	997·9	1011·0	+ 0·3	304·2	307·2	17th	293·7	289·8	26th	299·0	*298·1*	+0·1	102	+ 1
1026	ϕCuyaba	15 36	56 6	165	992·2	1010·9	+ 0·7	305·4	308·3	23rd	294·1	292·6	23rd	299·8	*298·2*	0·0	100	+ 4
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	— 44
1028	Caetite	14 3	42 37	897	916·0	1014·7	+ 0·9	299·2	301·0	12th	290·6	289·1	24th	294·9	*295·4*	0·0	19	— 46
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1007·9	1013·2	+ 0·4	301·1	303·7	4th	295·7	294·4	19th	298·4	*298·5*	—0·1	249	— 23
1030	ϕAracaju	10 55	37 3	6·1	1013·4	1014·2	+ 0·8	301·4	303·1	1st	296·0	294·3	15th	298·7	*298·6*	—1·1	200	— 46
1035	St. Helena	15 57	W 5 40	‡604	946·1	1014·9	+ 1·1	295·7	298·1	6th	285·4	284·6	4th	290·6	*290·9*	—1·2	198	+100
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	— 16
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	5	— 16
1041*a*	Elisabethville	11 39	27 28	1236	877·5	1010·0	— 0·2	301·6	304·3	30th	287·8	282·7	26th	294·7	..	+0·8	130	— 16
1042	Gwelo	19 28	29 48	1417	862·8	1015·3	— 0·1	298·3	301·9	21st	284·6	281·9	20th, 28th	291·4	..	0·0	0	— 39
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡854·3	‡1011·3	— 1·2	299·8	304·0	30th	285·0	281·3	24th	292·4	*291·2*	+0·7	35	+ 39
1044	Zomba	15 23	35 18	955	907·8	1012·7	— 0·7	298·7	301·3	9th, 22nd	289·2	285·8	21st	293·9	*293·4*	+0·2	57	+ 20
1045	ϕAntananarivo	18 55	47 33	1375	864·6	1011·9	— 0·3	298·2	299·8	8th, 15th	288·0	285·0	29th	293·1	292·8	+1·4	14	— 22
1046	Tamatave	18 10	49 24	5	..	..	..	300·9	304·0	..	293·8	289·5	..	297·4	*296·9*	..	732	+ 43
1047	Vohémar	13 21	50 1	3	..	..	..	305·3	307·5	..	296·6	295·5	..	300·9	*300·3*	..	229	— 55
1048	Antalaha	14 58	50 19	3	1011·1	1011·4	..	..	..	..	..	..	..	..	..	..	..	— 30
1055	Cocos Keeling Is.	12 5	96 53	4·6	1010·3	1010·9	— 1·4	301·9	303·5	11th	298·2	295·8	27th	300·1	*299·8*	—0·3	378	+140
1057	ϕChristmas Island	10 25	105 43	5·5	1006·2	1006·8	— 1·2	304·7	306·9	7th	297·5	296·3	1, 17, 28	301·1	*300·3*	+0·3	284	+ 52
1061	Kupang	10 10	123 34	45·1	1004·1	1009·5	— 0·4	305·9	307·9	21st	295·8	292·4	28th	300·8	299·9	+0·5	7	— 57
1061*a*	ϕDerby	17 18	123 40	16·2	1008·7	1010·6	— 0·8	307·3	310·4	1st	295·7	292·0	26th	301·5	..	—0·1	25	— 25
1062	ϕHall's Creek	18 13	127 46	373	970·1	1011·5	— 0·8	305·2	308·4	1st	289·4	284·2	26th	297·3	*296·8*	—1·2	45	— 25
1063	Darwin	12 28	130 51	29·6	1005·3	1008·6	— 0·6	306·4	308·4	18th	296·8	294·4	28th, 29th	301·6	*300·4*	—0·3	75	+233
1064	Daly Waters	16 16	133 23	211	984·8	1008·3	— 2·2	304·9	308·6	15th	291·9	286·3	29th	298·4	*297·9*	—1·6	250	— 39
1065	ϕMein	13 13	142 47	122	994·9	1008·5	— 0·6	303·1	306·3	1st	..	..	..	..	..	..	50	— 39
1066	ϕGeorgetown, Queensland	18 22	143 32	302	977·9	1011·5	— 0·4	306·0	310·3	22nd	292·1	283·6	28th	299·0	..	+0·4	1	— 39
1066*a*	Willis Island	16 18	149 59	8·5	1009·6	1010·6	..	300·6	301·9	1st	296·6	295·1	8th	298·6	*298·2*	..	156	— 27
1067	Samarai	10 37	150 40	15·2	..	1009·5	— 0·1	303·3	..	..	296·8	..	..	300·1	*299·8*	+0·3	233	—142
1072	Suva, Fiji	18 8	178 26	6·1	1012·1	1012·8	+ 0·8	301·3	303·8	3rd	295·8	294·1	25, 26, 27	298·6	*298·3*	—0·3	161	— 61
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113 † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112. ϕ Change of normals *see* pages 112 and 113.

APRIL—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	**300·3**	**303·0**	11th	**295·0**	**291·9**	26th	**297·7**	*297·4*	**—0·1**	223	+ 27
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1012·6	1015·8	+ 0·2	290·2	292·8	3rd	285·6	282·4	22nd	287·9	*287·8*	+0·1	0	— 1
1122	Iquique	20 12	70 11	9	1013·4	1014·5	+ 0·2	294·5	298·0	9th	288·2	285·7	24th	291·3	*292·0*	+0·6	0	0
1123	Catamarca	28 27	65 47	510	953·2	1010·6	— 1·1	302·2	312·5	8th	287·3	278·0	25th	294·7	294·0	+0·5	20	+ 2
1124	Salta	24 46	65 28	1178	883·5	1012·6	+ 0·9	297·7	304·8	8th	285·0	275·2	26th	291·3	291·4	+0·8	34	+ 4
1125	Goya	29 9	59 15	26	1010·1	1013·1	+ 0·4	299·3	306·8	8th	290·4	281·5	25th	294·9	293·8	+1·0	171	+ 52
1126	Asuncion	25 17	57 41	93	1002·7	1013·5	+ 0·1	305·4	310·0	13th	291·8	286·8	26th	298·6	296·8	+1·8	29	—103
1127	Curityba	25 25	49 17	908	914·9	1015·7	+ 0·1	297·5	301·0	21st	288·0	284·5	7th	292·8	*291·6*	+1·9	59	— 19
1128	Rio de Janeiro	22 54	W43 10	33·0	1012·0	1015·8	+ 1·0	302·7	306·4	4th, 19th	294·2	292·0	12th	298·4	297·7	+1·2	‡70	..
1139	ϕWindhoek	22 34	E17 5	1669	..	..	..	295·0	297·7	5th	285·1	276·4	22nd	290·0	*290·0*	—1·9	66	+ 27
1141	Kimberley	28 42	24 47	1202	883·8	1016·3	— 0·4	296·8	302·4	2nd	282·2	275·1	22nd, 23rd	289·5	289·2	—1·0	39	+ 3
1142	Johannesburg	26 11	28 4	1806	823·6	1016·6	— 0·7	293·8	297·3	1st, 4th	282·8	271·8	22nd	288·3	*288·0*	—0·1	40	— 4
	Bulawayo	20 9	28 35	1340	869·1	1012·9	— 0·8	297·3	300·8	20th	284·8	281·9	3rd	291·1	*290·4*	—0·8	0	— 16
1143	Durban	29 52	31 3	15·2	1016·2	1018·0	— 0·8	298·9	302·3	4th, 8th	290·7	286·1	23rd	294·8	*294·2*	0·0	56	— 30
1145	Lourenço Marques	25 58	32 36	59	..	1015·9	— 1·7	301·7	308·6	27th	291·2	287·7	24th	296·4	295·9	+0·1	71	+ 24
1146	Tuléar	23 23	43 40	4	..	..	..	..	..	..	288·7	285·0	..	..	..	..	40	..
1147	Fort Dauphin	25 2	46 58	25	..	1015·1	..	299·2	301·0	..	294·4	291·0	..	296·8	*296·4*	..	110	..
	Mauritius	20 6	57 33	55·2	1006·1	1012·4	— 1·6	300·8	302·7	7th	295·1	293·2	27th	297·9	297·5	+0·4	168	+ 54
1159	Onslow	21 43	114 57	4·3	1009·2	1010·1	— 1·9	306·4	310·8	15th	293·9	290·2	30th	300·2	..	+0·5	142	+119
1160	Cue	27 27	117 52	454	963·1	1014·1	— 1·0	301·8	311·2	2nd	290·4	286·3	12th	296·1	..	+0·5	84	+ 65
1161	ϕNullagine	21 53	120 5	386	968·4	1011·2	— 1·6	305·8	310·1	1st	291·3	287·2	26th	298·6	..	+0·5	16	— 10
1162	Laverton	28 40	122 23	466	963·8	1016·3	— 1·2	300·8	310·7	1st	*289·6*	286·3	13th, 28th	295·2	*295·2*	+1·5	74	+ 48
1163	Alice Springs	23 38	133 37	587	948·4	1013·5	— 2·8	301·8	305·9	3rd	285·4	279·1	25th	293·6	*293·8*	+0·5	0	— 19
1164	ϕWilliam Creek	28 55	136 21	76·2	1008·7	1017·6	— 0·6	302·7	308·0	3rd, 4th	288·1	281·3	2nd	295·4	*295·1*	+2·6	4	— 6
1165	Boulia	22 55	139 38	146	995·5	1011·9	— 1·4	305·4	310·8	2nd	291·9	286·5	26th	298·7	*298·9*	+2·1	0	— 20
1166	Thargomindah	27 58	143 43	123	1002·1	1016·2	0·0	301·2	306·5	2nd	290·6	286·4	25th	295·9	*295·8*	+1·1	106	+ 85
	Mitchell	26 32	147 52	336	978·5	1016·5	..	299·1	305·4	1st	286·4	283·0	7, 28, 29	292·8	..	+0·4	80	+ 43
1167	ϕRockhampton	23 24	150 30	11·3	1013·5	1014·8	— 0·7	301·3	304·4	12th	290·7	287·0	27th	296·0	..	—0·7	72	+ 14
1168	ϕBrisbane	27 28	153 2	41·8	1013·2	1018·0	+ 0·4	297·5	302·6	30th	289·5	286·6	23rd	293·5	*292·9*	—0·8	148	+ 58
1170	ϕNorfolk Island	29 4	167 59	15·2	1014·5	1016·2	— 1·1	295·6	297·4	6th	..	..	..	..	..	..	201	+ 93
		S.	E.															

APRIL—ZONE 12.

Between Latitude 30° S. and 40° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1211	Juan Fernandez	33 37	78 50	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1212	Punta Tumbes	36 37	73 6	120	1003·5	1018·0	+ 1·6	289·6	294·0	1st	282·1	276·0	23rd	285·9	*285·8*	—0·4	0	— 44
1213	Punta Angeles, Valparaiso	33 1	71 38	41	1010·4	1015·3	— 0·6	291·9	296·6	11th	283·2	279·7	24th	287·5	*287·1*	—1·3	0	— 11
1214	Santiago	33 27	70 42	520	954·8	1015·2	0·0	297·0	302·7	7th	279·4	274·2	19th	288·2	*286·8*	+0·4	0	— 15
1215	Cordoba	31 25	64 12	423	964·7	1013·4	— 0·7	298·2	306·4	12th	283·6	273·4	25th	290·9	290·5	+0·8	67	+ 22
1216	Bahia Blanca	38 45	62 15	25	1010·5	1013·6	— 0·9	294·1	302·6	6th	282·3	273·0	24th	288·2	288·1	—0·2	31	— 26
1217	Buenos Ayres (Chacarita)	34 36	58 22	25	1011·9	1014·8	— 1·2	295·5	302·5	11th	284·3	274·8	19th	289·9	290·0	+0·7	108	+ 20
1218	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1013·8	— 1·4	..	300·4	7th	..	278·5	25th	..	*291·2*	+0·4	69	— 46
1219	ϕPorto Alegre	30 2	W51 13	23·5	1010·9	1013·6	— 2·0	299·3	305·8	12th	289·8	283·0	27th	294·5	294·2	+0·6	171	+ 46
1239	ϕCape Town	33 56	E 18 29	12·2	..	1016·5	+ 0·2	295·2	309·8	2nd	285·9	280·7	20th	290·6	*288·8*	+0·3	69	+ 22
1240	Danger Point	34 37	19 18	27·7	1012·7	1016·0	..	293·6	299·7	3rd, 5th	287·4	281·9	21st	290·5	..	+1·1	137	+ 96
1241	Riversdale	34 6	21 16	‡1100	1004·0	1015·8	..	296·6	313·0	3rd	284·2	278·6	22nd	290·4	..	..	83	+ 40
1242	East London	33 2	27 55	44·8	..	1015·8	— 1·1	296·7	305·8	26th	286·6	282·4	22nd	291·7	..	—0·1	21	— 47
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1009·4	1016·7	— 1·7	298·6	305·4	7th	288·4	283·4	28th	293·5	*293·3*	+1·2	56	+ 14
1260	Katanning	33 42	117 35	310	982·0	1018·3	— 0·4	296·1	304·0	8th	284·1	280·2	2nd	290·1	..	+0·8	54	+ 24
1261	Coolgardie	30 57	121 10	423	969·2	1017·6	— 0·9	298·3	308·1	1st	287·2	283·4	19th	292·8	*292·8*	+1·5	27	+ 3
1262	Eucla	31 43	128 58	4·6	1017·8	1018·5	— 0·3	297·6	307·6	3rd	289·4	286·2	28th, 29th	293·5	*293·0*	+1·7	6	— 22
1263	Streaky Bay	32 48	134 13	13·1	1018·7	1020·1	+ 0·2	301·6	307·6	13th	286·4	281·3	1st	294·0	*293·4*	+3·3	6	— 20
1264	ϕAdelaide	34 56	138 35	42·7	1016·8	1021·8	+ 1·8	300·4	305·9	15th	287·9	282·9	22nd	294·1	*293·7*	+3·4	1	— 43
1265	ϕMelbourne	37 49	144 58	35·1	1020·2	1024·4	+ 4·9	295·5	303·4	8th	282·8	276·9	24th	289·1	*288·8*	+0·8	0	— 55
1266	Bourke	30 13	145 58	110	1008·3	1021·3	+ 0·9	301·7	305·8	2nd, 3rd	287·9	283·6	30th	294·8	..	+1·5	0	— 30
1267	ϕSydney	33 51	151 13	42·1	1018·5	1023·4	+ 5·0	294·7	298·1	13th	287·8	284·3	23rd	291·3	*291·1*	+0·1	240	+100
1268	ϕLord Howe Island	31 20	159 0	4·6	1019·2	1019·7	+ 0·7	295·1	298·8	29th	290·3	286·1	23rd	292·7	..	—0·6	148	+ 12
1271	Auckland	36 50	174 50	38·1	..	1019·9	+ 1·3	290·9	294·1	1st	283·9	278·6	9th	287·4	..	—1·8	146	+ 60
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

APRIL—ZONE 13.

Between Latitude 40° S. and 50° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1301	Chatham Island	43 57	176 31	45·7	..	1019·2	..	..	..	..	..	..	..	..	..	..	102	+ 19
1321	Isla Guafo	43 34	74 45	140	1000·2	1017·2	+ 3·1	284·4	287·7	4th	280·8	278·2	12th	282·6	*282·6*	—1·0	61	— 47
1322	Punta Galera	40 1	73 44	40	1014·4	1019·3	+ 3·3	286·6	290·6	5th	282·2	278·2	30th	284·4	*284·9*	—0·4	143	— 77
1323	Sarmiento	45 30	69 0	274	976·4	1007·6	— 3·1	288·9	301·4	2nd	277·9	270·0	28th	283·4	283·1	—0·5	7	— 4
1324	Puerto Madryn	42 49	W64 58	14	1008·8	1010·2	— 1·4	293·2	307·9	3rd	279·8	273·6	24th	286·5	286·4	—0·7	0	— 15
1365	Launceston	41 27	E147 10	10·1	1024·7	1025·8	+10·0	294·3	299·7	14th	280·3	273·6	23rd, 24th	287·3	*286·5*	+1·6	0	— 53
1366	ϕHobart	42 53	147 20	53·9	1020·1	1026·6	+11·9	290·4	298·1	15th	281·8	277·4	24th	286·1	*285·3*	+0·2	3	— 44
1370	Invercargill	46 25	168 21	3·7	..	..	..	285·9	289·7	5th	278·1	271·9	29th	282·0	..	—1·4	92	— 18
1371	Dunedin	45 52	170 31	91·4	..	1023·1	+ 7·8	286·6	292·4	6th	278·7	274·7	10th	282·7	..	—1·2	269	+200
1372	Christchurch	43 31	172 39	7·6	..	1021·7	+ 7·4	287·6	298·2	1st	278·4	272·5	29th	283·0	..	—1·9	75	+ 25
	Wellington	41 16	174 46	3·0	..	1022·1	+ 4·7	290·1	294·5	21st	281·1	275·1	29th	285·6	..	—1·2	78	— 21
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114. ϕ Change of normals *see* pages 113 and 114.

APRIL—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1421	Islota de los Evangelistas	52 24	75 6	55	995·6	1002·3	+ 0·5	281·8	284·0	2nd	277·4	274·0	21st	279·6	*279·0*	—1·1	322	+ 30
1422	Puerto de Punta Arenas	53 10	70 54	28	995·1	998·5	— 2·8	281·4	286·8	3rd	275·8	273·4	25th	278·6	*278·9*	—0·7	38	— 75
1423	Punta Dungeness	52 24	68 26	5	996·7	997·3	— 3·8	283·2	288·6	3rd	277·4	274·5	18th	280·3	*280·1*	—0·8	6	— 11
1424	Santa Cruz	50 11	68 21	12	1000·8	1001·8	— 2·6	286·1	294·8	3rd	275·7	271·4	22nd, 23rd	280·9	281·0	—0·8	4	..
1424a	‡Año Nuevo	54 39	64 8	50	..	..	..	280·2	286·0	1st	276·1	273·0	14th, 25th	278·1	*277·4*	—1·5	108	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	995·9	..	281·7	286·9	1st	273·9	271·3	20th	277·8	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	992·8	995·4	— 5·9	281·3	286·9	1st	275·3	271·3	25th	278·3	278·7	—1·0	..	..
1429	S. Georgia (Cumberland Bay)	54 14	36 33	4	988·6	989·1	— 6·8	278·3	283·0	5th	271·2	266·1	28th	274·7	*275·3*	—0·1	203	+ 60
		S.	W.															
	APRIL—ZONE 15. Between Latitude 60° S. and 70° S.																	
1527	South Orkneys	60 44	44 39	7	983·2	984·1	— 6·5	272·0	275·4	16th	268·1	262·5	26th	270·1	270·4	+0·4	44	0
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—APRIL 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805.	Sierra Leone. 834.	Entebbe. 844.	Malden Island. 905.	Tulagi. 969.	Ocean Island. 970.	Suva, Fiji. 1072.
	9h.	m/s	9h.	9h. 17h.	7h. 21h.	9h. 20h.	9h.	8h. 20h.	9h.
1	SE	6·3	ESE 4	WNW 1 WSW 4	W 2 S 1	.. ..	..	WNW 3 W 3	SE 3
2	SSE	6·0	SSE 2	NW 2 SW 5	W 1 S 2	.. ..	..	WSW 5 Calm 0	N 4
3	SE	8·6	ESE 2	NNE 1 SW 3	W 1 SE 1	.. ..	..	Calm 0 Calm 0	N 3
4	SE	6·8	ESE 2	ENE 1 SW 3	SE 1 SE 1	.. ..	..	N 1 E 3	NNE 3
5	SE	5·3	E 2	Calm 0 SW 1	NW 2 NW 2	.. ..	..	ENE 5 E 5	E 2
6	SE	7·5	Calm 0	NE 1 SW 4	Calm 0 SE 2	.. ..	..	ENE 5 E 2	E 3
7	SE	6·2	E 1	Calm 0 WSW 1	NW 2 SE 2	.. ..	..	NE 1 NE 3	SW 2
8	SE	6·7	E 1	NW 1 SW 3	N 1 SE 2	.. ..	..	Calm 0 Calm 0	SE 3
9	SE	5·7	ENE 1	SW 1 SW 1	NW 1 NW 2	.. ..	..	Calm 0 E 1	SE 4
10	SE	5·1	ENE 1	NNE 1 SW 3	SW 1 Calm 0	.. ..	..	NE 2 NE 2	E 5
11	SE	4·4	E 2	SW 1 SSW 2	NE 1 SE 2	.. ..	..	NE 4 E 4	SE 5
12	SE	4·6	E 4	SSW 1 NW 1	N 2 N 1	.. ..	..	E 4 E 4	SE 5
13	SE	5·8	E 4	NE 1 SSW 2	N 1 W 2	.. ..	..	NE 2 ..	E 3
14	SE	4·4	ENE 4	SW 1 SSW 2	N 1 Calm 0	.. ..	..	NE 2 ..	SE 3
15	SE	4·6	E 4	NE 1 SW 1	NE 1 NW 1	.. ..	..	E 2 E 3	E 2
16	SE	3·3	ENE 3	SSW 1 SW 2	N 1 NW 2	.. ..	..	NE 1 E 3	ENE 3
17	SE	4·0	ENE 2	W 2 SW 1	NW 1 Calm 0	.. ..	..	NE 2 ..	NE 1
18	SE	5·1	E 3	NNE 1 SW 1	NW 1 NE 1	.. ..	..	NE 3 NE 3	N 1
19	SE	4·9	E 3	NNW 1 SW 1	NW 1 Calm 0	E 5 E 4	..	ENE 2 ENE 3	NNE 2
20	ESE	8·8	ENE 2	SW 1 SW 1	E 1 SE 1	EbyS 3 ESE 3	..	ENE 3 ENE 3	Calm 0
21	ESE	10·2	E 3	SW 1 SW 1	NW 1 NE 2	ESE 5 E 5	..	NE 3 NE 3	NE 2
22	ESE	8·0	E 3	NE 2 SW 1	Calm 0 N 2	EbyS 5 EbyN 2	..	NE 4 NE 5	SE 2
23	ESE	6·0	E 3	SW 1 SW 1	S 1 SE 2	E 4 EbyS 3	..	NE 3 NE 4	E 2
24	SE	..	E 2	Calm 0 SW 1	E 1 Calm 0	EbyS 3 EbyS 2	..	E 3 E 4	SE 2
25	SE	..	SE 3	Calm 0 SW 1	SW 1 SW 2	EbyS 5 EbyS 4	..	E 3 E 4	Calm 0
26	SE	..	E 3	W 1 Calm 0	SW 1 SW 1	E 4 EbyS 3	..	E 4 E 3	N 1
27	SE	4·8	ESE 3	E 1 WSW 1	SW 1 NW 1	EbyN 3 EbyS 2	..	E 3 E 3	N 1
28	ESE	4·9	SE 4	NE 1 SW 1	NW 1 S 2	E 4 E 3	..	E 3 E 3	E 1
29	ESE	5·6	E 4	S 1 SW 1	N 1 E 1	E 5 E 3	..	E 3 E 3	E 3
30	ESE	5·7	ENE 6	W 1 SW 1	N 1 N 1	E 4 E 3	..	NE 2 NE 2	..
Mean	..	5·9	2·7	1·0 1·7	1·1 1·3	.. ..	..	2·6 2·5	..
§Resultant	130° (95)	..	95° (87)	235° (47)	325° (15)	..	125° (36)	65° (73)	85° (57)
§Normal	138° (89)	6·6	‖78° (77)	277° (35)	250° (41)	‖‖81° (78)		‖100° (47)	91° (53)

‖Normal refers to ½ (9 + 21). ‖‖Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—APRIL 1923.

‡‡*Barents Sea.*—A large mass of scattered ice was lying in the middle of the sea and there were two small masses of crushed ice, one off the entrance to the White Sea, and one to the north-east of Cape Kanin. Round Bear Island the sea was open until the 22nd, when drift ice came from the north-east and lay packed round the Island, except on the west. From the 27th onwards there was however only a little drift ice at the Island. The area covered was 1106×10^3 sq. km. as compared with a normal of 1155×10^3 sq. km.

‡‡*Spitsbergen.*—The sea along the west coast was generally open except for a little ice off Green Harbour. In Foreland Sound and Green Harbour there was firm ice throughout the month, and in Icefjord and King's Bay there was scattered ice. On the 26th Bell Sound was free of ice.

‡‡*Iceland.*—The coasts of Iceland and Grimsey were free of ice. The normal duration of average ice conditions is 6 days visible and 1 day heavy.

‡‡*Greenland Sea and Denmark Strait.*—At Angmagsalik there was ice everywhere except for a land water now and again. The area covered was 1078×10^3 sq. km. as compared with a normal of 1157×10^3 sq. km.

‡‡*N. Atlantic and Labrador.*—Sixty-five icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 78. The eastmost occurred in 40°W. Vast icefields were lying south of Newfoundland to 45°N, but west of this the ice decreased somewhat. In Cabot Strait however the ice was more close. The Gulf of St. Lawrence was full of ice, and in Belle Isle Strait the ice was closely packed.

‡‡*Davis Strait.*—At Cape Farewell the "Storis" passed about 14 miles offshore on the 15th, and from the 18th the ice was lying close inshore. On the 17th the ice reached to Sagdlet. From the 17th Julianehaab Bay was covered with closely packed ice, and outside the bay there was close ice about 60 miles offshore. At Arsuk there were icebergs but no "Storis." A new mass of "Storis" rounded Cape Farewell later and the ice formed long tongues towards the west. The sea ice left Egedesminde about the beginning of the month. No open water was visible from Vansittart Island. In the eastern part of Fury and Hecla Strait the ice was unbroken and the edge was lying 6 miles offshore. In Committee Bay there was pack ice more than 1 year old, and in Pelly Bay smooth young ice.

‡‡ *Isforholdene i de arktiske Have*, 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, MAY 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF MAY 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **MAY—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
105	Barrow	71 23	156 17	7·0	..	1015·9	..	271·3	276·3	5th, 17th	263·0	248·6	1st	267·2	..	+0·6	17	+ 10
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124	Upernivik	72 47	56 7	19·2	1014·4	1016·8	+ 0·8	274·9	279·6	10th	267·8	260·2	4th, 5th	271·3	*271·6*	+2·6	28	+ 14
133	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135	Jan Mayen	70 59	W 8 18	23·1	1008·9	1011·8	..	..	277·7	13th	269·3	263·5	7th	..	*271·4*	..	17	..
139	‡Spitsbergen (GreenHarbour)	78 2	E 14 14	11·4	1013·5	1015·0	— 1·2	..	276·8	8th, 11th	267·6	261·0	25th	..	270·3	+2·2	11	— 1
140	Björnöen	74 28	19 15	40·5	1006·4	1011·5	..	..	278·3	9th	270·1	266·4	1st	..	*271·4*	..	18	..
141	Gjesvaer	71 6	25 22	6·5	1008·2	1009·0	— 5·4	..	281·9	21st	273·9	260·1	2nd	..	*276·3*	+0·7	11	— 37
142	Mehavn	71 1	27 47	4·6	1009·6	1010·6	— 3·3	..	281·0	21st	271·5	265·8	5th	..	*275·0*	—0·3	19	— 22
143	Vardö	70 22	31 8	6·8	1010·6	1011·5	— 3·5	..	283·4	23rd	272·8	267·6	5th	..	*274·8*	+0·1	35	— 2
147	Malye Karmakouly	72 23	52 43	14·8	1015·4	1017·3	+ 4·3	270·0	277·4	22nd	264·3	255·5	1st	267·2	*267·1*	—1·8	13	0
148	Waigatz	70 24	58 47	11·2	1013·9	1015·3	+ 0·5	267·5	277·1	24th	262·2	250·5	11th	264·8	*265·1*	..	1	..
153	Dickson	73 30	80 23	13	1013·0	1014·7	..	264·3	271·0	30th	258·1	249·4	9th	261·2	..	..	9	..
		N.	E.															

Between Latitude 70° N. and 60° N. **MAY—ZONE 2.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
203	Nome	64 30	165 24	6·7	..	1014·2	+ 3·4	278·5	291·9	14th	271·7	261·3	1st	275·1	*275·5*	+0·7	2	— 18
204	Candle	65 55	161 57	2·4	..	..	..	280·1	289·1	17th	269·6	255·2	2nd	274·9	..	+1·0	..	..
205	Tanana	65 10	152 6	67·1	..	1011·8	— 1·9	287·0	294·1	17th, 18th	273·9	255·2	2nd	280·4	..	+0·6	27	+ 6
206	Rampart	65 30	150 15	122	..	..	..	286·2	294·7	17th	273·3	257·4	2nd	279·7	..	—0·4	15	+ 3
207	Valdez	61 7	146 16	8·2	..	..	..	285·1	290·8	9th	275·1	270·8	6th, 9th	280·1	..	+0·8	8	— 50
209	ΦEagle	64 46	141 12	254	..	1011·5	+ 0·8	287·6	294·1	15th, 16th	272·2	257·4	3rd	279·9	..	—0·2	14	— 7
210	ΦDawson	64 4	139 29	324	972·0	1010·9	+ 0·4	288·6	295·2	17th	273·0	260·2	3rd	280·8	..	—0·1	25	+ 2
211	Carcross	60 11	134 34	662	..	..	..	286·8	293·0	17th	272·1	266·3	23rd	279·4	..	+1·0	8	— 3
212	Fort Good Hope	66 25	128 53	65·2	1009·3	1017·5	..	281·7	293·0	24th	269·2	248·0	3rd	275·5	..	..	13	— 4
213	Fort Simpson	61 52	121 35	129	998·4	1014·3	+ 0·8	284·7	296·9	21st	272·8	265·8	3rd	278·7	..	—0·3	32	— 17
215	Hay River	60 51	115 20	161	994·8	1015·0	+ 1·2	276·8	289·1	22nd	269·1	263·0	18th	273·0	..	—3·8	50	+ 35
225	Jacobshavn	69 13	51 2	12·6	1015·1	1016·7	+ 2·5	276·9	282·9	10th	270·6	261·1	5th	273·7	*273·5*	+0·8	63	+ 49
226	Godthaab	64 11	51 43	20·4	1013·2	1015·7	+ 3·9	280·3	287·0	19th	272·8	265·4	4th	276·5	*275·8*	+2·1	180	+138
229	Ivigtut	61 12	48 10	13·0	1015·0	1016·6	+ 4·8	282·6	292·4	27th	275·4	269·4	4th	279·0	*278·8*	+1·3	160	+ 69
231	Angmagsalik	65 37	37 33	31·7	1013·0	1017·0	+ 1·8	279·9	286·9	10th	271·9	267·6	6th	275·9	*275·1*	+1·3	30	— 36
232	Stykkisholm	65 5	22 46	25	1012·7	1015·8	+ 2·2	280·9	287·5	29th	274·0	269·1	6th, 7th	277·5	*277·1*	—0·2	14	— 21
233	Vestmanno	63 24	20 17	132	998·0	1014·4	+ 1·7	281·8	285·7	14th	274·8	269·4	6th	278·3	*277·7*	—1·0	32	— 48
234	Grimsey	66 33	18 1	22·0	1011·2	1013·9	— 0·8	277·6	285·0	30th	272·9	266·0	7th	275·3	*275·2*	+0·5	11	— 3
235	Teigarhorn (Berufjord)	64 41	14 22	18·0	1010·3	1012·5	— 1·4	282·3	293·4	26th	273·9	267·9	7th	278·1	*277·4*	+0·2	5	— 66
236	ΦThorsnavn	63 32	6 45	26·3	1007·2	1010·5	— 3·0	281·1	286·6	31st	275·1	271·4	11th	278·1	*278·0*	—1·9	75	— 10
237	Lerwick	60 9	W 1 11	18·0	..	1009·2	— 4·5	281·9	284·7	5th, 31st	277·1	272·4	10th	279·5	*279·7*	—0·8	104	+ 51
238	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1002·4	1007·9	— 6·2	282·4	288·3	31st	277·3	273·7	10th	279·9	*279·7*	—2·3	189	+100
239	Aalesund	62 28	6 10	6·3	1006·3	1007·1	— 6·9	..	286·4	16th	277·5	273·6	11th	..	*279·6*	—1·2	79	+ 18
240	Trondhjem	63 26	10 25	39·5	1001·7	1006·5	— 7·4	283·8	288·3	22nd	270·5	272·7	1st	280·1	*279·7*	—1·0	64	+ 26
241	Bodö	67 17	14 24	22·3	1003·4	1006·1	— 7·9	..	287·0	22nd	270·1	271·0	1st	..	*279·2*	+0·4	67	+ 16
242	Haparanda	65 50	24 9	9·2	1008·7	1009·8	— 4·5	280·5	289·0	22nd, 25th	272·4	262·5	1st	276·5	*276·5*	—0·8	32	+ 1
243a	ΦHelsingfors	60 10	24 57	11·7	1010·3	1011·7	— 3·5	284·0	291·0	27th	276·7	272·1	1st	280·3	*280·0*	—0·8	55	+ 10
243	Kuopio	62 54	27 40	90·3	999·5	1010·6	— 3·7	283·2	291·0	22nd	274·5	268·8	4th	278·9	*279·7*	—0·5	56	+ 15
244	Kola	68 53	33 1	6·7	1011·6	1012·4	— 2·4	278·3	289·0	23rd	270·1	256·9	5th	274·2	*274·5*	—2·0	15	— 8
245	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
246	Arkhangelsk	64 34	40 31	6·3	1011·9	1012·7	— 1·3	280·8	290·6	22nd	272·0	259·6	5th	276·4	*276·3*	—1·7	57	+ 27
247	ΦMezen	65 50	44 16	14·9	1011·4	1013·3	— 0·4	277·3	289·5	22nd	269·5	258·0	7th	273·4	*273·2*	—3·1	41	+ 16
248	Oust-Tsylma	65 25	52 18	? 68	..	..	..	277·2	286·2	22nd	269·0	257·1	8th	273·1	*272·6*	—2·8	47	+ 12
249	ΦTcherdyn	60 24	56 31	?177	992·0	1013·7	— 0·2	285·1	300·3	20th	275·1	264·6	7th	280·1	*279·7*	—1·3	55	+ 4
250	Berezov	63 56	65 4	39·5	1011·4	1016·4	+ 2·7	278·4	298·1	30th	268·2	253·3	12th	273·3	*272·8*	—2·6	13	— 24
251	Obdorsk	66 31	66 35	23·7	1012·7	1015·7	+ 2·2	271·0	281·4	30th	263·7	240·4	11th	267·4	*267·2*	—3·5	34	+ 15
252	ΦSourgout	61 15	73 24	? 40	1009·2	1014·2	+ 1·1	..	297·2	30th	269·2	254·3	10th	..	*273·3*	—3·3	36	+ 1
253	Doudinka	69 23	86 4	20·0	1011·0	1013·6	+ 3·2	..	277·1	31st	259·5	250·1	11th	..	*261·9*	—5·0	5	— 7
254	Touroukhansk	65 47	87 57	45·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
261	Viliouisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
262	Iakoutsk	62 1	129 43	108	996·3	1009·8	+ 0·6	..	294·1	29th	270·5	255·4	1st	..	*276·8*	—2·0	10	— 7
263	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*.
Φ Change of normals, *see* pages 105 and 106.

MAY—ZONE 3.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1010·5	— 0·7	278·4	280·8	15, 27, 28	273·4	270·2	2nd	275·9	..	+1·5	23	— 18
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1010·1	— 2·7	280·9	287·4	4th	275·1	269·7	2nd, 3rd	278·0	*277·6*	+0·2	99	— 25
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	282·1	287·4	21st, 22nd	273·6	269·1	2nd	277·8	..	—0·1	27	— 19
306	Kodiak (Radio)	57 46	152 22	6·1	..	1009·5	— 2·0	282·2	287·4	5th	276·3	273·0	7th	279·2	*279·2*	+0·4	85	— 42
										Sea Temp.							
307	55° —50°N. 150° —145°W.	††51 32	††147 32	§(24)	..	1008·1	— 4·4	..	..	279·1 | +0·6	..	..	..	..	278·0	—1·1	..	..
309	Sitka	57 3	135 19	27·4	..	1013·2	— 2·0	286·8	294·1	10th	277·4	271·9	1st	282·1	*282·1*	+0·9	77	— 27
310	Prince Rupert	54 18	130 18	51·8	1008·1	1014·4	— 0·8	286·3	291·0	8th	278·0	274·7	17th	282·2	*282·2*	+0·4	122	— 14
311	Barkerville	53 2	121 35	1274	866·7	1011·3	— 0·3	284·7	290·8	8, 9, 31	273·0	267·4	2nd	278·8	*278·4*	—0·7	95	+ 31
312	Kamloops	50 41	120 29	385	969·4	1014·6	— 1·1	293·7	301·3	7th	280·7	273·0	2nd	287·2	*287·1*	—0·1	38	+ 15
313	Calgary	51 2	114 2	1045	892·5	1010·9	— 0·2	291·3	299·1	8th, 22nd	275·8	267·4	3rd	283·6	*283·0*	+1·1	137	+ 78
314	Fort Chipewyan	58 42	111 10	218	986·9	1013·7	+ 0·1	281·3	290·2	21st	271·9	261·9	7th	276·6	*277·5*	—3·4	20	+ 7
315	Prince Albert	53 10	105 38	442	960·7	1013·0	+ 1·1	291·3	302·4	25th	276·3	267·4	8th	283·8	*283·6*	+1·0	31	+ 30
316	Qu'Appelle	50 30	103 47	645	936·2	1011·1	— 0·9	291·9	305·8	26th	276·3	264·1	8th	284·1	*284·0*	+1·0	27	+ 2
317	Minnedosa	50 15	99 50	515	952·5	1013·0	— 0·4	290·6	303·4	26th	276·4	266·1	12th	283·5	*283·6*	+0·6	55	— 24
318	Berens River	52 18	97 23	216	..	..	..	288·2	299·7	27th, 29th	274·5	261·9	12th	281·3	..	+2·2	13	— 22
318*a*	ϕPort Nelson	57 0	92 51	14·9	1013·0	1014·9	— 2·4	276·7	300·8	30th	270·2	261·3	8th	273·4	..	+0·2	1	
319	Fort Hope	51 33	87 49	‡260	982·7	1014·1	— 1·8	288·0	303·6	27th	273·6	260·2	9th	280·8	*280·9*	+2·0	28	— 4
320	ϕMoose Factory	51 14	80 30	9·1	1014·4	1015·5	+ 0·4	284·3	303·0	31st	272·4	264·1	10th	278·3	..	—0·4	18	— 30
321	Fort George	53 50	79 5	97·5	..	..	..	279·2	290·8	31st	270·6	261·9	9th	274·9	*274·7*	..	..	+ 10
322	Mistassini Post	50 15	73 55	383	..	..	..	284·1	294·7	31st	269·8	261·3	12th	276·9	..	—1·3	75	
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	281·1	286·9	27th	273·4	268·6	12th	277·2	..	—0·5	115	+ 32
										Sea Temp.							
326	ϕBelle Isle	51 53	55 23	130	997·0	..	..	276·9	283·0	10th	271·9	269·7	21st, 31st	274·4	*274·4*	+0·1	84	+ 19
331	55° —50°N. 30° —25°W.	††52 29	††27 28	§(46)	..	1028·1	..	..	..	284·1 | +0·7	..	..	..	..	283·8	..	..	..
333	53° —48°N. 20° —15°W.	††50 21	††17 23	§(33)	..	1018·5	..	..	..	285·4 | +0·3	..	..	..	..	284·5	..	..	..
333*a*	62° —57°N. 20° —15°W.	††59 19	††16 58	§(39)	..	..	..	..	..	281·8 | —0·3	..	..	..	..	281·2	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1017·6	+ 2·1	285·3	290·2	2nd, 31st	280·5	276·9	7th	282·9	282·9	—1·3	44	— 37
335	Aberdeen	57 10	W 2 6	26·8	..	1010·0	— 4·8	283·3	291·9	4th	277·1	273·6	10th	280·2	280·2	—1·3	119	+ 5
336	ϕGreenwich	51 28	0 0	46·3	..	1013·0	— 2·5	289·4	300·2	5th	279·2	274·1	12th	284·3	283·7	—1·1	49	+ 66
337	Uccle	50 48	E 4 22	100	1001·7	1013·8	— 1·5	289·6	302·0	5th	279·9	273·9	25th	284·7	283·8	—1·4	123	+ 74
338	De Bilt	52 6	5 11	3·0	1012·6	1013·0	— 2·3	288·2	302·1	6th	279·5	273·8	25th	283·9	283·4	—1·5	127	+ 41
338*a*	Hamburg	53 33	9 58	40·3	1008·0	1012·9	— 2·0	287·5	297·6	5th	280·5	276·5	19th	284·0	*284·0*	—0·9	100	— 3
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1011·4	1012·0	— 3·1	286·1	296·7	6th	278·9	275·3	3rd	282·5	*282·4*	—0·4	38	— 5
340	Potsdam	52 23	13 4	84·9	1003·6	1013·8	— 1·3	290·3	304·1	6th	281·1	276·6	13th, 19th	285·7	285·2	—0·5	55	+ 7
340*a*	Uppsala	59 51	17 38	24	1006·5	1009·4	— 5·0	286·1	289·8	26th	275·8	270·2	3rd	280·9	281·0	—1·3	51	— 14
341	Warsaw	52 13	21 3	89·9	1004·4	1015·2	— 1·0	291·7	300·6	26th	282·0	276·1	4th	286·9	286·6	..	46	+ 24
342	Tartu (Ülikooli)	58 23	26 43	74·5	1003·5	1012·6	— 1·7	287·7	301·5	27th	277·1	271·4	5th	282·4	281·9	—1·0	68	
343	Petrograd	59 56	30 16	4·8	1011·5	1012·1	— 2·4	285·5	297·7	27th	276·3	269·6	4th, 5th	280·9	*280·7*	—1·4	115	+ 73
344	Kiiv	50 27	30 30	183	994·2	1015·6	+ 1·1	295·9	302·4	10th	285·2	275·9	4th	290·6	*289·7*	+2·0	41	— 7
344*a*	Moscow	55 50	37 33	167	994·3	1014·3	— 1·1	290·5	301·7	18th	280·7	270·3	5th	285·6	*285·5*	+0·7	42	— 10
345	Saratov	51 33	45 57	122	1001·5	1016·0	+ 0·4	295·2	303·3	20th	283·3	271·1	6th	289·2	*289·2*	+2·4	9	— 10
346	Kazan	55 47	49 8	79·9	1006·6	1016·2	+ 0·3	292·3	303·5	17th, 22nd	281·7	271·1	8th	287·0	*286·4*	+0·4	25	+ 10
347	Orenburg	51 45	55 6	109	1003·9	1016·9	+ 0·4	..	303·3	24th	281·8	270·3	7th	..	*287·8*	+0·3	45	— 6
348	Perm	58 1	56 16	163	996·0	1015·7	+ 0·6	287·9	301·3	22nd	278·0	267·5	6th	283·0	*282·9*	—0·1	40	— 17
349	Sverdlovsk	56 50	60 38	281	981·6	1015·4	+ 1·0	288·0	301·8	24th	277·4	266·4	9th	282·7	*282·7*	—0·2	43	— 17
350	Tobolsk	58 12	68 14	108	1002·4	1015·7	+ 0·8	286·1	298·6	22nd	275·6	264·1	9th	280·8	*280·3*	—1·8	23	+ 13
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	292·3	302·0	26th	277·5	266·2	12th	284·9	*284·7*	—1·1	37	+ 13
352	Omsk	55 1	73 19	108	1002·4	1015·6	+ 0·7	288·0	300·0	27th	277·5	270·5	10th	282·8	*281·8*	—2·2	47	+ 23
353	Barnaoul	53 20	83 48	162	995·8	1015·3	— 0·3	291·0	303·7	7th	276·9	266·9	14th	284·0	*284·2*	+0·3	13	— 22
354	Tomsk	56 30	84 58	122	997·8	1012·8	— 1·5	..	297·5	31st	275·3	268·2	14th	..	*280·3*	—0·8	65	— 11
355	ϕMinousinsk	53 43	91 41	248	985·0	1015·0	+ 0·2	..	300·8	31st	277·2	267·8	17th	..	*283·6*	+0·1	28	+ 11
356	Eniseisk	58 27	92 10	77·6	1001·9	1011·5	— 1·1	..	297·0	28th	273·5	268·4	14th	..	*278·4*	—1·6	43	+ 15
357	Irkutsk	52 16	104 19	467	957·6	1013·4	— 0·6	288·6	298·9	8th	273·2	266·8	15th	280·9	280·9	—0·3	7	+ 2
358	Kirensk	57 47	108 7	263	979·5	1011·5	— 0·2	..	297·7	31st	273·2	269·2	12th	..	*279·4*	—0·9	29	— 17
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	962·3	1007·6	— 0·7	285·9	295·2	31st	271·1	262·2	1st	278·5	*279·7*	—0·9	67	+ 38
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	989·4	1006·4	— 0·8	290·4	300·4	22nd	277·5	267·2	1st	284·0	*283·9*	+0·3	22	— 17
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	1003·6	1014·4	+ 4·5	..	..	..	274·2	271·5	3rd, 4th	..	*276·0*	+0·8	40	— 19
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

MAY—ZONE 4.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
411	Victoria, B.C.	48 24	123 19	70·1	1008·1	1016·6	— 0·1	287·9	292·3	4th	280·7	277·5	1st	284·3	283·9	—0·4	26	— 3
412	Portland, Oregon	45 32	122 41	46·6	1011·8	1017·3	0·0	291·9	302·4	8th	282·5	277·4	2nd	287·2	*287·0*	+0·5	38	— 20
413																		
414	Macleod	49 44	113 24	953	..	..	..	290·8	299·1	9th	277·2	270·8	3rd	284·0	*284·2*	+0·9	77	+ 26
414*a*	Helena	46 34	112 4	1253	871·3	1012·5	— 0·7	289·9	299·7	25th	277·3	271·3	15th	283·6	*283·0*	—0·4	55	+ 1
415	Salt Lake City	40 46	111 54	1329	864·3	1010·5	— 0·2	293·4	301·9	24th	283·1	274·7	1st	288·2	*288·4*	+0·6	49	— 2
416	Cheyenne	41 8	104 48	1856	810·9	1011·5	— 0·2	289·0	298·6	31st	277·3	269·7	15th	283·2	*282·8*	—0·2	66	+ 5
416*a*	North Platte	41 8	100 45	860	915·3	1013·5	+ 0·7	293·3	301·3	31st	280·7	271·9	16th	287·0	*286·9*	—0·8	104	+ 32
417	Bismarck	46 47	100 38	510	954·5	1014·5	+ 1·0	293·1	303·6	26th	279·9	269·1	8th	286·5	*286·5*	+1·3	26	— 36
418	Winnipeg	49 53	97 7	232	985·9	1013·6	— 0·1	292·4	305·2	27th	278·6	265·8	12th	285·5	*285·3*	+1·4	65	+ 14
419	Duluth	46 47	92 6	345	973·9	1015·2	+ 0·7	288·0	298·6	25th	276·8	269·7	9th	282·4	*282·6*	+1·4	46	— 40
420	Port Arthur	48 27	89 12	196	992·2	1016·0	+ 0·8	286·3	299·7	24th	275·8	266·9	12th	281·1	*281·2*	+0·1	31	— 22
421	Chicago	41 53	87 37	251	984·4	1014·5	— 0·5	289·4	299·1	19th	281·5	272·4	9th	285·4	*285·0*	—2·3	88	— 3
422	Toronto	43 40	79 24	116	1003·7	1017·8	+ 2·9	289·7	301·5	26th	278·2	270·2	10th	283·9	284·1	—1·2	94	+ 23
423	§New York (Central Park)	40 47	73 58	47·4	1009·0	1014·7	— 0·9	294·2	303·0	26th	282·9	275·8	11th	288·5	288·2	—0·7	47	— 35
424	§St. John, N.B.	45 17	66 4	36·2	1008·6	1013·0	— 1·0	286·0	295·8	25th	277·3	273·4	2nd	281·7	281·2	0·0	65	— 29
424*a*	S.W. Point, Anticosti	49 24	63 33	9·1	1011·7	1012·8	+ 0·1	279·4	284·1	17th	274·4	273·0	2, 13, 29	276·9	*277·1*	—0·4	110	+ 48
425	Sable Island (Main Station)	43 57	60 6	7·6	1012·5	1013·4	— 2·1	281·3	285·8	28th	276·9	274·7	3, 8, 21	279·1	*278·9*	—0·3	49	— 30
426	Port aux Basques	47 35	59 10	9·1	1011·9	1013·0	— 0·4	280·3	284·9	20th, 31st	274·5	271·1	15th	277·4	*277·2*	—0·4	167	+ 74
426	St. John's, Newfoundland	47 34	52 42	48·8	1007·6	1013·6	+ 0·5	283·6	291·9	22nd	276·3	273·0	1, 5, 16	279·9	*279·7*	+0·8	87	— 4
										Sea Temp.							
430	50° —45°N. 35° —30°W.	††47 40	††32 25	§(25)	..	..	..	..	..	286·0|—0·5	..	..	..	..	..	..	..	..
435	Madrid	40 24	3 41	667	939·6	1016·1	+ 1·2	295·7	303·6	4th	282·8	277·3	28th	289·2	*288·3*	+1·1	33	— 7
436	Nantes	47 15	W 1 34	36·5	1011·0	1015·6	— 0·2	290·9	302·0	4th	281·2	276·8	29th	286·1	285·9	—0·7	71	+ 13
437																		
438	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1009·4	1015·8	— 0·2	290·7	301·7	4th	280·5	274·1	18th	285·6	285·7	—0·7	63	+ 12
438*a*	Marseille	43 18	5 23	75	..	1016·2	+ 2·6	295·1	300·4	5th	282·5	278·9	16th	288·8	*288·6*	—0·6	35	— 9
439	Zürich	47 23	8 33	493	958·8	1016·5	+ 0·8	293·0	302·8	7th	280·4	274·7	13th	286·7	285·9	—0·1	94	— 13
440	Rome	41 54	12 27	45·5	1010·7	1015·9	+ 1·6	298·2	304·0	20th	286·5	282·0	12th	292·4	*292·0*	+1·1	2	— 53
440*a*	Vienna	48 15	16 22	203	991·3	1015·4	+ 1·1	292·9	301·1	8th	282·9	275·5	20th	287·9	287·9	—0·1	37	— 34
441	Budapest	47 31	19 2	130	1000·0	1015·4	+ 1·4	297·2	305·4	31st	283·6	278·0	20th	290·4	290·5	+2·3	21	— 51
442	§Sofia	42 42	23 20	550	952·6	1015·6	+ 0·7	297·1	303·6	10th	284·6	278·6	7th	290·9	*290·8*	+2·7	70	— 17
443																		
444	Odessa (Observatory)	46 26	30 46	42·8	1011·2	1016·3	+ 1·4	294·8	301·6	28th	286·3	279·8	6th	290·6	*289·9*	+1·3	42	+ 11
444*a*	Kharkiv (University)	50 0	36 14	140	999·5	1016·0	+ 0·3	297·4	304·0	20th	284·0	272·9	5th, 6th	290·7	*290·6*	+3·1	47	+ 3
445	Novorossiisk	44 44	37 49	37·1	1011·9	1016·3	+ 1·8	293·9	299·4	31st	286·0	278·1	6th	290·0	*289·3*	+0·8	32	— 32
446	ϕTiflis	41 43	44 48	404	968·6	1014·8	+ 0·2	298·6	303·2	26th	286·6	280·0	7th	292·6	*292·0*	+2·2	39	— 42
447	Astrakhan	46 21	48 2	— 20	1018·4	1016·0	+ 0·9	298·5	303·3	20th	287·7	276·5	7th	293·1	*293·2*	+2·7	11	— 7
448	Fort Alexandrovsk	44 31	50 7	— 23·0	1018·3	1015·6	+ 1·1	296·1	303·9	18th	287·6	279·7	8th	291·8	*291·9*	+1·6	1	— 14
	ϕKrasnovodsk	40 0	52 59	— 4·6	1014·8	1014·3	+ 0·4	299·6	306·3	21st	290·9	282·6	6th	295·2	*294·3*	+0·7	2	— 8
449																		
450	Kasalinsk	45 46	62 7	66·7	1008·7	1016·6	+ 1·8	..	..	..	284·4	274·9	8th	..	*292·1*	+2·3	7	— 3
451	Tashkent	41 20	69 18	478	958·2	1012·7	— 0·2	300·3	304·5	7th, 27th	286·0	279·3	1st	293·2	*292·9*	0·0	36	+ 5
452	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Alma Ata	43 16	76 53	841	919·6	1014·8	+ 0·6	294·0	300·6	6th	283·2	273·4	1st	288·6	*288·1*	—0·5	97	+ 8
461	ϕMoukden	41 48	123 23	43·8	1003·3	1008·5	— 0·5	295·9	302·2	23rd	282·2	276·0	3rd	289·1	288·9	+0·3	54	— 3
462	Joshin	40 40	129 11	31·9	1007·0	1010·9	+ 1·2	288·0	295·4	28th	280·2	275·6	1st	284·1	283·6	—0·5	58	— 3
463	Yuki	42 20	130 24	65·6	1002·8	1010·8	+ 1·4	287·4	296·4	25th	278·4	274·2	2nd	282·9	282·7	—0·2	68	— 3
464	Vladivostok	43 7	131 53	128	995·6	1011·2	+ 0·9	286·2	292·5	19th	278·6	275·8	15th	282·4	*281·9*	—0·7	73	+ 23
465	Ochiai	47 20	142 47	27·4	1008·5	1011·9	+ 1·2	286·2	297·7	11th	274·3	268·5	2nd	280·3	280·2	+1·5	53	— 24
466	Nemuro	43 20	145 35	26·7	1010·5	1013·8	+ 2·3	283·3	290·7	30th	275·4	270·8	2nd	279·4	279·4	—0·1	143	+ 49
466*a*	Syana	45 14	147 53	39·3	1008·8	1013·7	+ 2·1	284·1	291·6	11th	274·7	268·2	23rd	279·4	279·0	+0·8	97	+ 16
		N.	E.															

Between Latitude 40° N. and 30° N. **MAY—ZONE 5 (Western Half).**

508										Sea Temp.								
511	35° —30°N. 145° —140°W.	††30 49	††141 33	§(13)	..	1024·7	0·0	..	..	291·3|+1·1	..	..	..	..	290·8	+1·1	..	..
512	San Francisco	37 48	122 26	47·2	1009·9	1015·6	— 0·2	290·8	300·2	14th	283·2	281·3	2nd	287·0	*285·8*	+0·9	2	— 17
	San Luis Obispo	35 18	120 39	61·3	1008·1	1015·6	— 0·5	294·4	308·0	8th	281·4	276·9	31st	287·9	*286·3*	+1·1	0	— 15
513																		
514	San Diego	32 43	117 10	26·5	1009·5	1012·5	— 1·7	293·6	301·3	9th	287·1	284·7	3rd	290·3	*289·9*	+1·5	0	— 8
515	Modena	37 48	113 54	1670	830·3	1009·1	— 0·2	294·9	300·8	9th	276·9	268·0	1st	285·9	*285·8*	+1·1	8	— 13
516	Santa Fé	35 41	105 57	2138	784·9	1007·1	— 0·9	293·3	298·6	25th	279·2	273·6	14th	286·2	*286·6*	—0·1	26	— 1
517	Denver	39 45	105 0	1613	834·9	1011·2	— 0·4	292·4	303·0	31st	280·3	271·3	15th	286·4	*285·9*	—0·3	46	— 15
518	Abilene	32 23	99 40	530	949·3	1009·1	— 2·2	302·4	311·9	29th	288·8	281·3	9th	295·6	*295·0*	+0·5	22	— 76
	Saint Louis	38 38	90 12	173	991·6	1011·8	— 2·2	295·6	301·9	31st	286·1	276·3	8th	290·8	*290·7*	—1·2	149	+ 35
519																		
520	Mobile	30 41	88 2	17·4	1009·8	1011·8	— 3·5	299·8	306·3	22nd	291·2	283·0	10th	295·5	*295·5*	—0·4	201	+ 90
521	Nashville	36 10	86 47	166	993·4	1013·2	— 2·5	296·4	301·3	20th	286·8	278·0	10th	291·6	*291·5*	—1·6	109	+ 13
522	Charleston	32 47	79 56	14·6	1012·4	1014·2	— 2·0	297·6	300·2	1st	291·4	282·4	10th	294·5	*295·2*	—0·8	160	+ 74
523	Washington	38 54	77 3	34·1	1010·2	1014·2	— 1·3	296·8	304·1	29th	284·1	275·8	10th	290·4	*290·6*	—0·4	38	— 54
524																		
	Bermuda	32 17	64 46	46·0	1010·5	1015·9	— 2·0	296·3	298·2	18th	290·0	287·4	12th	293·2	*293·0*	—1·3	131	+ 18
530	Santa Cruz (Flores)	39 27	31 9	40	1013·5	1018·5	— 3·0	.. .. 291·1	294·5	27th	287·1	281·4	3rd	289·1	*289·1*	—0·7	162	+ 57
531																		
532	ϕHorta	38 32	28 38	65	1011·3	1019·1	— 2·1	291·8	295·2	27th	287·4	281·3	2nd	289·6	289·1	—0·7	173	+ 91
532*a*	Ponta Delgada	37 44	25 40	22	1017·2	1019·8	— 1·3	291·5	294·8	26th	288·0	283·5	2nd	289·7	289·4	—0·1	..	..
533	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	138	+ 49
533*a*	Madeira (Funchal)	32 38	16 55	25	‡1018·8	‡1021·7	+ 2·8	293·7	295·3	31st	288·8	287·1	13th	291·2	*291·5*	+1·0	25	— 3
535																		
535*a*	Lisbon	38 43	9 9	95	1006·1	1017·4	+ 1·5	292·9	299·7	2nd	285·8	283·0	30th	289·4	288·6	—1·0	11	— 39
536	Melilla	35 17	2 59	40	..	..	..	296·7	297·6	18, 20, 28	288·5	287·2	3rd	292·6	*293·9*	0·0	6	— 24
536*a*	Gibraltar	36 6	5 21	16·2	..	1017·2	+ 0·9	294·8	299·1	24th	287·4	285·2	31st	291·1	*290·7*	—0·5	4	— 40
	Colomb-Béchar	31 36	2 4	769	927·4	1012·0	..	303·6	308·0	17th	290·2	284·0	23rd	296·9	*296·8*	..	7	..
		N.	W.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

MAY—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1014·3	1017·0	+ 1·3	294·4	300·8	8th	284·3	281·0	3rd	289·3	..	−2·0	34	− 6
538	Algiers (Bouzaréah)	36 47	3 2	344	976·3	1016·4	+ 1·5	292·9	302·6	8th	286·3	283·0	9th	289·6	*289·7*	+0·6	65	+ 21
539	ϕTunis	36 48	10 10	21	1013·3	1015·8	..	297·5	304·8	9th	286·6	281·4	2nd	292·1	*291·6*	+0·6	6	− 16
539*a*	Malta	35 53	14 30	56·4	..	1014·9	+ 1·0	295·1	299·1	26th	289·5	286·9	1, 2, 7	292·3	*291·4*	+0·4	1	− 9
540	Riposto	37 41	15 14	14·2	..	1017·5	+ 1·1	294·8	298·6	31st	288·7	286·6	1st	291·7	*290·8*	−0·3	9	− 13
541	Athens	37 58	23 43	107	1001·6	1014·1	+ 0·7	298·2	305·6	29th	289·6	284·5	6th	293·9	294·2	+1·7	30	+ 8
542	ϕAlexandria	31 12	29 53	32·0	1009·6	1013·4	0·0	300·9	310·1	24th	291·3	287·9	4th	296·1	*295·3*	+1·3	0	− 1
543	Nicosia (P.W.D.)	35 9	33 22	159	992·7	1010·8	− 0·5	302·5	309·1	2nd	288·4	282·4	9th	295·4	..	+1·6	80	+ 50
544	Beirut	33 54	35 28	33·7	..	1011·9	− 0·9	299·0	306·7	2nd, 27th	291·7	287·6	11th	295·3	*295·2*	+1·0	28	+ 4
545	Hinaidi	33 17	44 29	32·3	..	1008·4	− 1·4	309·8	315·3	30th	293·4	289·7	10th	301·6	*301·6*	..	0	− 15
546	Lenkoran	38 46	48 52	−20·0	1020·2	1017·8	+ 3·4	..	299·2	26th	287·1	281·9	7th	..	*291·6*	+0·4	18	− 8
547	Tehran	35 41	51 25	1220	..	..	..	299·8	303·7	7th	288·5	284·3	1st	294·1	*294·2*	−0·1	5	− 20
548	Meshed	36 16	59 35	946	878·2	..	..	299·8	304·9	7th	283·6	275·8	1st	291·7	..	−0·6	0	− 1
549	Seistan	31 0	61 30	610	..	..	..	306·2	310·1	11th	292·3	286·1	6th	299·3	..	..	0	− 1
550	Quetta	30 11	67 3	1677	830·6	..	− 1·1	301·2	306·4	18th	284·0	279·9	6th	292·6	*292·7*	−0·3	6	− 1
551	Peshawar	34 2	71 37	339	966·8	1004·5	− 0·3	307·6	315·0	11th, 12th	293·7	287·8	15th	300·7	*300·5*	−1·2	39	+ 15
551*a*	Lahore	31 34	74 20	214	978·4	1002·2	− 0·5	310·7	315·7	11th, 31st	295·7	292·2	20th	303·2	*303·1*	−1·5	31	+ 5
552	Simla	31 7	77 8	2204	780·0	..	− 0·2	294·7	298·7	2nd	287·6	282·2	14th	291·1	*291·2*	+0·3	65	− 4
552*a*	Leh	34 10	77 42	3503	665·8	..	− 1·7	290·4	294·4	2nd	276·4	273·6	5th	283·4	*283·1*	+0·2	2	− 1
559	Hankow	30 35	114 17	37·0	1005·7	1010·0	− 1·3	301·5	306·4	9th	292·0	287·0	6th	296·7	*296·3*	+1·5	188	+ 29
560	ϕTientsin	39 10	117 10	5·0	1008·6	1009·2	− 0·4	300·6	309·3	23rd	287·0	280·8	1st	293·8	*293·5*	+1·0	12	− 17
561	ϕShanghai (Zi-ka-Wei)	31 12	121 26	7	..	1010·2	− 0·9	297·8	305·3	26th	287·6	283·1	10th	292·7	291·7	+0·1	126	+ 34
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1002·9	1011·0	− 0·5	293·3	299·5	15th, 21st	284·3	280·7	2nd, 10th	288·8	288·1	+0·7	63	+ 15
562*a*	Nagasaki	32 44	129 52	133	995·2	1010·7	− 1·3	295·8	299·9	16th	287·0	284·9	11th	291·9	291·6	+0·7	230	+ 49
563	Kyoto	35 1	135 44	42·9	1006·6	1011·7	− 0·3	296·3	302·3	18th	285·8	276·8	5th	291·1	290·9	+1·4	254	+ 112
564	Tokyo	35 41	139 46	5·8	1012·4	1013·1	+ 1·0	293·8	299·4	28th	286·3	281·3	2nd	290·1	289·8	+0·2	192	+ 45
565	Kanayama	37 53	140 46	24·6	1010·4	1013·3	+ 1·5	292·6	299·5	20th	282·1	271·8	2nd	287·3	286·9	−0·2	123	+ 6
566	Miyako	39 38	141 59	30·4	1009·3	1013·0	+ 1·4	291·6	298·8	26th	280·8	273·2	2nd	286·2	285·6	+0·3	128	+ 9
		N.	E.															

MAY—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		N.	W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1014·9	− 3·6	298·7	302·4	27th	290·7	286·9	19th	294·7	*294·2*	..	320	..
605	Honolulu	21 19	157 52	11·6	1016·2	1017·5	+ 0·1	299·4	300·8	..	294·6	291·9	..	297·0	*296·9*	+0·2	9	− 29
614	La Paz	24 10	110 20	12	1007·7	1009·1	..	307·9	313·0	27th	288·1	284·4	2nd	298·0	..	..	0	− 6
615	Chihuahua	28 38	106 4	1423	856·1	1004·1	..	303·6	306·5	27th	289·5	282·0	2nd	296·5	*298·3*	+0·4	6	− 20
616	ϕLeon	21 7	101 41	1809	821·7	1006·7	+ 1·1	304·9	307·0	20th	286·7	283·0	15th	295·8	*296·5*	+0·2	6	− 17
616*a*	ϕMonterry	25 40	100 18	528	949·1	1007·2	− 1·6	305·3	310·5	12th	294·0	289·0	10th	299·7	*299·6*	+0·8	50	+ 17
617	Tulancingo	20 5	98 22	2181	789·1	..	..	301·2	304·2	30th	283·8	280·6	5th	292·5	*291·1*	−0·1	32	− 9
618	Galveston	29 18	94 50	16·5	1009·6	1011·5	− 2·6	300·1	303·0	15th	294·8	289·1	9th	297·4	*297·1*	+0·5	90	+ 124
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1011·8	− 3·0	300·9	305·8	29th	292·1	286·9	10th	296·5	*296·7*	0·0	231	..
619	Merida, Yuc.	20 58	89 38	22	1007·9	1010·4	− 2·3	307·6	311·6	28th	296·4	292·6	11th	302·0	*301·0*	+0·7	36	− 55
620	Havana	23 8	82 21	24·3	..	1013·4	− 1·1	303·3	307·0	2nd	295·1	293·2	6th	299·2	*298·6*	+0·1	103	+ 55
620*a*	Key West	24 33	81 48	6·7	1012·3	1012·8	− 1·8	301·8	304·1	3rd	296·3	291·9	4th	299·0	*299·0*	−0·1	144	+ 19
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1016·7	+ 0·7	299·7	..	..	295·8	..	..	297·7	*297·6*	−0·9	131	..
622	Watling Island	24 6	74 26	33·5	1012·8	1016·7	+ 0·8	..	302	7th	..	296	25, 30, 31	..	*298·5*	..	..	..
633	Izaña	28 19	16 30	2367	766·8	..	..	287·5	292·8	5th	278·6	273·2	30th	283·1	*282·8*	+1·1	4	− 14
634	La Laguna	28 28	W16 20	547	954·3	1017·9	+ 1·6	292·0	295·1	4th	284·2	279·4	3rd	288·1	*287·5*	−1·3	0	− 4
641	Siwa	29 12	E 25 29	−23	1016·3	1013·6	..	307·4	315·9	24th, 25th	287·9	284·0	9th, 10th	297·6	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	998·7	1011·9	0·0	305·5	317·0	26th	290·7	285·3	11th	298·1	*298·1*	+0·8	6	+ 5
643*a*	Aswan	24 2	32 53	99·6	998·3	1009·5	− 0·1	311·9	319·8	27th	294·8	288·0	11th	303·4	*303·0*	+0·6	..	..
644	Tor	28 14	33 37	1·9	1009·4	1009·5	− 0·3	304·3	309·5	26th	292·6	287·7	18th	298·4	*298·3*	+1·0	0	− 1
647	Bushire	28 59	50 53	4·3	1006·8	1007·4	− 0·4	304·1	310·4	9th	297·5	294·1	3rd	300·8	*300·2*	−0·2	0	− 2
648	Jask	25 44	57 47	4·0	1006·5	1007·0	+ 1·0	307·5	310·5	17th	298·9	294·3	5th	303·2	*302·6*	+0·5	0	− 2
649	Karachi	24 53	66 57	4·0	1005·1	1005·5	− 0·2	303·2	305·8	22nd	298·3	296·7	5th	300·7	*300·1*	−1·1	0	− 2
650	Jacobabad	28 17	68 29	56·7	996·7	1002·9	+ 0·3	313·6	319·1	30th	298·7	293·4	4th	306·1	*305·7*	−2·0	2	+ 2
651	Jaipur	26 56	75 52	436	956·7	1004·0	+ 0·1	313·3	316·6	31st	297·2	293·3	17th	305·3	*304·8*	−1·3	19	+ 4
652	Nagpur	21 8	79 5	310	970·5	1003·8	− 0·1	315·4	319·4	31st	301·3	297·3	21st	308·4	*307·8*	+0·4	1	+ 15
653	Allahabad	25 25	81 51	94·2	992·6	1002·6	− 0·3	315·8	319·0	31st	299·9	298·2	4th	307·9	*307·5*	+1·0	0	− 20
653*a*	Darjeeling	27 3	88 18	2265	774·1	..	− 0·9	290·8	293·7	7th	285·1	283·0	13th	287·9	*288·0*	+0·5	161	+ 29
654	Calcutta	22 36	88 23	6·4	1003·4	1004·1	− 0·9	309·2	314·2	8th	299·1	295·0	12th	304·1	*304·1*	+1·2	26	− 17
655	Gauhati	26 8	91 41	59·7	999·7	1006·5	− 1·1	303·3	307·9	7th	295·3	293·0	10th	299·3	*298·2*	−0·5	230	+ 34
655*m*	Cherrapunji	25 15	91 42	1313	866·1	..	− 0·5	295·6	300·9	2nd	290·2	286·3	30th	292·9	*292·3*	+0·8	1234	+ 49
655*a*	Akyab	20 11	92 56	6·1	1005·7	1006·4	− 1·1	304·8	307·9	3rd	298·3	295·4	7th	301·6	*301·9*	−0·3	502	+ 112
656	Mandalay	21 59	96 0	76·2	998·5	1006·9	− 0·3	309·7	313·3	30th	298·2	293·9	9th	303·9	*303·6*	−0·9	150	+ 16
656*a*	Tengyueh	25 2	98 33	1626	833·4	1005·0	+ 1·6	295·8	299·7	31st	285·9	282·4	9th	290·9	*290·4*	−0·4	70	− 101
657	ϕPhu Lien	20 48	106 38	116	993·7	1006·9	− 0·4	303·9	308·9	24th	296·4	293·2	8th	300·1	299·3	+0·3	134	+ 8
658	ϕMoncay	21 31	107 51	9·0	1006·4	1007·5	0·0	303·5	306·3	30th	296·1	292·4	8th, 9th	299·8	*300·1*	0·0	405	+ 96
659	ϕHongkong	22 18	114 10	33·2	..	1008·9	− 0·4	301·1	305·1	26th	296·4	293·0	2nd	298·7	298·4	+0·5	90	− 16
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	− 16
661	Taihoku, Formosa	25 2	121 31	9·3	1009·1	1010·1	− 0·3	302·6	308·0	21st	292·9	287·7	12th	297·8	297·4	+0·6	151	− 213
661*a*	Basco	20 28	121 59	18·7	..	1007·6	− 1·0	302·4	305·7	25th	296·9	294·1	12th	299·7	*299·6*	−0·7	145	− 75
662	ϕNaha	26 13	127 41	10·5	1009·5	1010·7	− 0·3	301·1	305·5	31st	293·3	288·8	12th	297·2	297·2	+1·1	34	− 25
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1011·5	1012·0	− 1·0	299·8	302·8	30th	294·8	291·6	18th	297·3	297·0	+1·3	182	− 75
		N.	E.															

* For formulæ employed *see* pages 109 and 110. † Estimates not base on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109.
ϕ Change of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

MAY—ZONE 7.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	953·1	1008·4	..	308·7	311·0	16th	292·0	286·8	6th	300·3	*298·0*	+0·1	5	..
716	Morelia	19 42	101 7	1923	809·3	1006·5	..	300·0	302·5	1st	288·0	285·4	16th	294·0	*293·4*	+0·6	38	..
717	Mexico, Tacubaya	19 24	99 12	2309	774·0	..	−0·2	302·2	304·7	23rd	283·4	280·6	5th	292·8	292·0	+1·7	30	− 21
718	ϕSalina Cruz	16 12	95 12	56	1002·8	1009·1	−2·3	303·4	308·0	3rd, 25th	298·7	296·5	14th	301·1	*301·3*	+0·2	39	− 49
719	ϕSan Salvador	13 42	89 12	682	936·2	1011·5	0·0	305·5	308·8	2nd	291·7	290·4	7th	298·6	*296·8*	−0·5	141	− 32
720	Belize	17 29	88 12	5·2	1009·3	1009·9	−1·9	303·7	304·9	28th, 30th	297·2	291·9	1st	300·4	*300·0*	−0·2	25	− 55
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1011·9	−0·7	303·1	306·1	4th	295·6	292·9	21st	299·3	*299·3*	+0·2	158	+ 1
722	Port au Prince	18 33	72 20	37·4	1009·4	1013·7	−0·3	305·6	308·8	29th	295·6	293·6	21st	300·6	*299·9*	+0·5	108	−130
723	Caracas	10 30	66 56	1042	899·0	1013·1	+0·3	299·6	303·0	6th, 10th	289·4	286·1	12th	294·5	*292·9*	−0·9	63	− 8
724	Montserrat	16 41	62 9	**36·6	1011·0	1015·2	+0·3	305·4	308·0	25th	296·1	293·6	5th	300·7	*300·1*	+0·5	11	− 88
725	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·6	‡1013·5	+0·6	302·7	303·6	7, 17, 29	296·8	295·2	11th, 12th	299·7	*299·3*	+0·3	25	− 84
	Barbados	13 8	59 36	55·2	..	1014·2	+0·3	303·3	304·4	29th	295·4	292·8	12th	299·4	*299·4*	0·0	17	− 51
731	São Vicente, C. Verde Is.	16 54	25 4	11	1013·0	1014·3	−0·3	296·9	298·0	30th	291·1	290·5	1, 11, 18	294·0	*295·0*	−0·6	0	0
732	San Tiago, C. Verde Is.	14 54	23 31	34	1009·9	1013·8	−0·9	299·7	303·0	4th	294·0	291·8	6th	296·8	*297·0*	−0·2	0	0
733	Bathurst	13 27	16 34	1·8	1013·6	1013·7	+0·1	303·7	306·9	25th, 26th	293·4	291·3	15th	298·6	*298·4*	+0·7	0	− 4
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	313·6	316·3	26th	296·9	295·8	9, 20, 30	305·2	..	0·0	0	− 12
735	Niénébalé	12 57	7 26	300	..	..	..	310·4	313·4	25th	297·0	291·8	6th	303·7	..	..	27	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	315·1	316·8	14th	297·2	292·6	7th	306·2	*306·1*	−1·4	1	− 5
737	ϕSokoto	13 2	E 5 14	353	..	..	..	312·0	314·7	1st	298·5	294·1	19th	305·3	*305·0*	+0·1	50	0
738	Kaduna Capital	10 32	7 25	637	943·4	1013·6	−0·1	304·9	306·9	7th	293·3	288·6	25th	299·1	*298·7*	−0·3	103	+ 32
739	Hadeija	12 40	10 5	?	..	..	..	313·3	314·7	18, 21, 31	295·9	291·3	12th	304·6	*304·3*	−0·6	1	− 37
740	ϕMaiduguri	11 47	13 11	361	..	..	..	314·0	316·3	1, 2, 21	298·2	294·1	11th	306·1	*305·8*	+0·2	66	+ 28
741	El Fasher	13 32	25 18	730	..	..	..	310·5	312·9	9th	293·3	289·5	15th	301·9	*301·3*	..	20	..
743	El Obeid	13 11	30 14	569	945·2	1007·4	+0·1	310·4	314·1	3rd	296·3	292·5	18th	303·4	*303·2*	+0·3	31	+ 20
743*a*	ϕKhartoum	15 37	32 33	390	963·1	1005·0	−1·5	313·0	315·6	2nd	298·1	293·1	17th	305·5	*305·8*	−0·8	1	− 2
744	Port Sudan	19 37	37 13	5·5	1007·2	1007·9	−0·6	308·2	315·1	31st	296·7	293·6	15th	302·4	*301·7*	−0·2	0	− 1
745	Berbera, Somaliland	10 22	45 2	9·5	1007·6	1008·7	−0·4	307·8	311·9	31st	298·9	295·2	2nd	303·3	*303·4*	−1·1	0	− 8
746	Aden	12 45	45 3	28·7	1006·3	1009·5	+0·4	305·7	307·1	31st	300·2	294·7	16th	302·9	*302·2*	−0·7	25	+ 22
752	Bombay	18 54	72 49	11·3	1007·5	1009·1	−0·4	305·7	307·0	28th	300·0	298·9	4th	302·9	301·9	0·0	0	− 21
752*a*	Kodaikanal	10 14	77 28	2343	770·2	..	−0·6	295·1	300·7	5th	285·3	283·3	11th	290·2	*289·3*	+0·8	183	+ 30
753	Bangalore	12 59	77 38	921	908·5	1007·7	−0·4	300·0	309·8	12th	293·2	290·3	8th	300·1	*299·1*	+0·2	114	+ 4
754	Madras	13 4	80 14	6·7	1005·7	1006·5	−0·4	310·7	316·2	4th	299·7	297·9	12th	305·2	*304·5*	0·0	1	− 26
755	Vizagapatam	17 42	83 19	11·6	1003·5	1004·8	−1·1	306·8	312·0	5th	300·6	295·8	17th	303·7	*303·1*	−0·4	72	+ 21
756	Port Blair	11 40	92 40	18·0	1005·9	1008·0	−0·8	303·7	305·2	17th	298·5	296·4	1st, 19th	301·1	*300·5*	−0·5	292	−111
757	Rangoon	16 46	95 48	5·5	1007·8	1008·4	−0·1	304·8	307·3	17th	298·2	295·2	9th	301·5	*300·2*	−0·6	241	− 63
758	Saigon (Cap St. Jacques)	10 20	107 5	180	987·2	1007·6	+0·2	303·5	306·2	16th	295·9	293·8	4th	299·7	*299·2*	−1·7	319	+123
759	Nhatrang	12 15	109 12	3·6	1006·6	1007·0	−0·4	304·3	306·9	5th	296·5	293·4	17th	300·4	*299·9*	−1·1	88	+ 37
760	Bolinao	16 23	119 53	7·1	..	1005·3	−2·2	304·6	309·0	1st	295·3	294·0	26th	299·9	*300·1*	−1·6	..	..
764	Vigan	17 34	120 23	12·2	..	1005·9	−1·7	305·4	307·4	1st, 23rd	297·5	295·8	28th	301·5	301·0	−0·7	199	+ 46
765	Manila	14 35	120 59	14·2	..	1007·8	−0·6	305·6	307·7	3rd	296·6	294·5	1st	301·1	300·2	−1·2	388	+275
767	ϕOrmoc	11 0	124 36	5·6	..	1007·3	−0·8	305·4	307·0	12th	295·9	293·9	12th	300·7	*299·8*	+0·1	101	+ 13
	Guam, Ladrone Is.	13 24	144 38	18·6	..	1008·2	−1·0	303·7	304·7	13, 16, 17	298·0	296·2	13th	300·9	*300·7*	−0·4	67	− 37
		N.	E.															

Between Latitude 10° N. and 0°.

MAY—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		N.	W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
782	Fanning Island	3 54	159 23	5·3	1010·0	1010·7	..	304·8	308·1	6th	298·0	295·7	8th	301·4	*300·9*	+0·8	209	−161
782	Colon	9 23	79 23	11·0	..	1010·0	− 0·7	303·8	305·8	29th	297·6	293·8	21st	300·7	*300·3*	+0·6	284	− 30
783	Bogota	4 36	74 5	2645	744·3	..	..	291·4	295·0	4th	283·0	279·8	4th	287·2	*286·7*	..	92	− 23
783	Merida, Venez.	8 36	71 9	1641	‡840·8	..	− 0·7	297·9	301·0	28th, 31st	288·7	287·0	14th, 24th	293·3	*292·1*	+0·2	84	−202
783	Ciudad Bolivar	8 9	63 33	38	1006·5	1010·8	..	306·8	308·2	2nd	296·9	295·8	13th	301·9	*301·3*	..	88	+ 19
784	El Peru, Guayanavieja	7 19	61 49	220	985·9	1010·8	+ 0·1	304·3	305·7	18th	293·4	292·2	13th	298·9	*298·2*	−0·3	75	− 58
785	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1013·8	+ 1·0	302·4	303·0	sev. dates	297·5	295·2	30th	299·9	*299·6*	−0·1	125	−158
786	Paramaribo	5 49	55 9	3·7	‡1013·5	‡1013·9	+ 0·9	303·0	305·4	20th	295·5	293·7	31st	299·3	*299·1*	+0·9	261	− 45
786	Cayenne	4 56	52 21	6	..	..	..	303·1	305·0	30th	296·8	295·0	29th	300·0	*299·0*	+0·9	396	− 16
787	10°–5° N. 30°–25° W.	†††7 24	†††27 36	§(91–96)	..	1013·8	+ 1·4	..	..	Sea Temp. 298·2	—1·0	..	..	..	..	297·9	−1·1	..	..
788	Konakri	9 31	13 43	16	..	..	..	304·2	..	..	297·4	293·5	17th	300·8	*300·3*	−0·1	87	− 73
789	Freetown, Sierra Leone	8 29	13 9	68·3	1003·2	1011·0	− 0·2	304·3	305·8	5th	296·7	294·1	15, 16, 24	300·5	*299·7*	0·0	207	− 84
790	Assuantsi	5 18	1 15	101	..	..	..	302·5	304·7	1, 3, 8	294·9	293·0	24th	298·7	*298·2*	..	288	+110
791	ϕAccra	5 33	W 0 12	27·0	1007·3	1010·4	..	303·3	305·2	1st	296·2	294·7	3, 4, 5	299·7	*299·2*	0·0	146	+ 14
792	Lagos	6 27	E 3 24	4·6	1009·8	1010·3	− 0·3	303·8	305·2	4th	296·8	295·2	4, 21, 28	300·3	*299·5*	−0·4	344	+ 71
793	Zungeru	9 48	6 10	130	..	..	..	307·5	310·2	8th	295·9	293·6	18, 20, 21	301·7	*301·2*	−0·1	104	− 19
794	Yola	9 12	12 30	259	..	..	..	308·0	311·3	13th	..	..	..	..	‡*300·8*	−0·4	165	+ 46
795	Wau	7 42	28 3	440	..	..	..	307·4	312·0	23rd	294·9	293·0	sev. dates	301·2	*299·5*	−0·6	201	+ 62
797	Malakal (Kodok)	9 35	31 37	394	..	..	..	..	..	..	..	..	..	..	..	..	..	..
798	Mongalla	5 11	31 47	439	959·4	1008·0	0·0	‡306·1	309·0	3rd, 4th	..	..	..	..	..	..	307	+170
798	ϕEntebbe	0 5	32 29	1171	884·8	1011·5	+ 0·7	297·4	300·8	24th	289·3	288·0	17th	293·3	*293·3*	−0·5	630	+415
799	Minicoy	8 17	72 49	2·1	1008·6	1008·8

MAY—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1009·0	1009·9	— 0·2	..	..	..	297·6	296·3	13th, 14th	..	..	..	211	+103
924	ϕManaos	3 8	60 1	43·8	..	..	..	302·3	305·6	2nd	295·7	293·0	24th	299·0	..	..	78	— 81
926	Taperinha	2 30	54 20	20·0	1009·4	1011·8	0·0	302·5	304·5	2nd	295·3	293·4	15th	298·9	*297·9*	+0·1	207	+25
927	ϕTuryassu	1 43	45 26	9·1	1009·3	1010·5	— 0·9	303·9	306·0	28th	294·5	293·1	29th	299·2	*298·1*	—0·4	389	+155
928	ϕBarra do Corda	5 30	45 16	81·0	1000·5	1009·8	— 0·7	304·0	305·7	9th	294·1	291·9	18th	299·0	*298·0*	+0·5	133	— 3
929	Quixeramobim	5 16	39 15	207	989·9	1013·4	+ 0·9	304·2	306·0	28th	294·2	291·4	30th	299·2	*299·0*	—0·5	20	+18
930	ϕFernando Noronha	3 50	32 25	106	999·7	1011·6	— 1·4	300·2	301·7	10th	296·5	294·2	11th	298·4	*298·5*	—0·4	441	+253
934	Ascension Island	7 56	W14 25	16·8	1011·2	1013·0	— 1·0	303·8	305·2	8th, 11th	295·8	294·1	7, 12, 31	299·8	*299·6*	+0·6	0	— 1
939	Loanda	8 49	E13 13	59·3	..	..	..	300·1	303·8	1st, 2nd	294·9	291·0	16th	297·5	297·1	—0·2	25	+ 5
940	Brazzaville	4 17	15 16	321	977·0	1013·2	+ 1·3	303·7	308·0	2nd	293·8	292·0	16th	298·8	*298·1*	—0·3	167	+ 57
943	Masaka	0 21	31 47	?1280	..	..	..	304·5	305·2	sev. dates	..	..	..	..	*299·1*	+0·6	136	— 77
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	296·3	298·6	13th	286·7	285·2	29th	293·0	..	..	324	+103
944a	Zanzibar	6 10	39 11	21·9	1011·8	1014·4	— 1·6	301·8	303·5	3rd	298·2	296·3	28th	300·0	*299·5*	+0·7	43	—106
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·2	304·1	1st	298·3	296·3	3rd, 21st	300·2	*299·9*	—0·1	237	+ 54
947	Seychelles, Port Office	4 37	55 27	4·6	1009·6	1010·0	— 1·7	302·4	303·7	12th, 13th	298·9	297·8	19th	300·7	*299·9*	+0·6	207	— 78
957	ϕPadang	0 56	100 22	6·7	1008·3	1009·1	— 1·0	..	..	..	..	..	..	..	..	..	282	+ 1
958	Batavia	6 11	106 50	8·0	1008·0	1008·9	— 0·5	304·2	306·1	1st	296·7	295·8	2nd, 10th	300·4	299·8	+0·3	102	— 18
958a	Pontianak	0 1	109 20	2·6	1008·9	1009·3	— 0·2	..	..	..	..	..	..	..	..	..	253	+153
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	243	+153
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	280	..
962	Amboina	3 42	128 10	4·2	1008·5	1008·9	— 0·7	..	..	..	..	..	..	..	..	..	533	+ 70
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	69	—153
965	Daru	9 4	143 13	7·6	..	..	..	300·9	..	..	296·9	..	..	298·9	*298·5*	—0·6	397	+153
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	302·6	..	..	296·5	..	..	299·5	*299·1*	—0·4	33	— 70
967	Rabaul	4 9	152 12	20·7	..	1008·2	..	305·1	307·0	16th	295·8	294·7	23rd	300·4	*299·8*	—0·1	169	+ 56
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1009·4	1009·7	— 0·2	303·7	306·1	10th	297·5	295·9	14th	300·6	*300·3*	+0·1	207	—150
970	Ocean Island	0 52	169 35	54·0	1001·6	1007·8	0·0	304·8	305·2	sev. dates	297·8	296·9	8, 9, 25	301·3	*300·6*	+0·5	7	
		S.	E.															

MAY—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1011·1	0·0	303·1	304·7	6th	296·1	295·2	21st	299·6	299·3	+0·5	177	+ 23
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	301·1	303·0	1st, 18th	293·1	289·7	14th, 23rd	297·1	*296·8*	—0·3	153	+ 17
1021	ϕArequipa	16 22	71 33	2452	761·2	..	—0·1	293·1	295·7	23rd	283·6	279·6	14th	288·3	*288·4*	+0·9	0	— 27
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	283·5	283·0	sev. dates	..	*288·5*	..	0	— 27
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·5	..	..	289·9	293·8	29th	277·1	273·0	24th, 25th	283·5	*283·8*	..	4	— 31
1025	ϕCorumba	18 59	57 39	116	1001·0	1014·3	+ 1·6	298·1	306·0	7th	288·3	279·0	25th	293·2	*292·8*	—3·6	49	— 53
1026	ϕCuyaba	15 36	56 6	165	994·4	1013·4	+ 1·1	301·9	308·0	2nd	289·8	279·4	26th	295·8	*294·7*	—2·5	52	— 50
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	916·1	1014·7	— 0·4	300·1	304·4	8th	290·4	286·0	29th	295·2	*295·8*	+1·7	17	— 84
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1007·7	1013·1	— 1·3	300·8	303·4	9th	295·6	294·0	19th	298·2	*298·0*	+0·2	141	— 53
1030	ϕAracaju	10 55	37 3	6·1	1013·5	1014·3	— 0·5	300·9	302·8	28th	294·9	292·8	27th	297·9	*298·0*	—1·3	140	— 64
1035	St. Helena	15 57	W 5 40	‡604	947·5	1016·6	+ 1·8	292·8	296·3	25th	286·1	285·2	8th, 17th	289·4	*289·9*	—1·1	169	— 27
1039	Mossamedes	15 12	E12 9	12·5	..	..	..	..	..	..	..	..	..	..	*293·1*	+0·6	136	— 77
1041	Livingstone	17 51	25 51	972	..	..	..	296·3	298·6	13th	286·7	285·2	29th	293·0	..	..	324	—255
1041a	Elisabethville	11 39	27 28	1236	878·7	1012·7	— 0·1	300·9	303·7	7th	283·2	277·9	30th	292·0	..	+0·3	43	—106
1042	Gwelo	19 28	29 48	1417	864·2	1018·4	0·0	296·8	300·2	1st	281·3	276·7	24th	289·1	..	+0·5	237	+ 54
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡855·5	‡1015·0	— 1·4	297·1	303·4	1st	280·8	276·9	23rd	288·9	*287·8*	0·0	10	— 98
1044	Zomba	15 23	35 18	955	909·0	1015·2	— 0·8	296·3	300·8	7th, 17th	286·5	280·8	24th	291·4	*290·8*	—0·4	54	— 51
1045	ϕAntananarivo	18 55	47 33	1375	865·0	1013·6	— 1·4	296·2	299·0	2nd	285·6	283·8	29th	290·9	290·5	+1·1	318	+ 73
1046	Tamatave	18 10	49 24	5	..	..	..	299·3	302·0	..	292·6	286·0	..	295·9	*295·4*	..	50	— 41
1047	Vohémar	13 21	50 1	3	..	..	..	304·7	306·7	..	295·7	295·0	..	300·2	*299·6*	..	..	..
1048	Antalaha	14 58	50 19	3	1011·9	1012·2	..	..	..	..	..	..	..	..	..	..	280	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1012·4	1012·9	— 0·1	301·1	303·1	11th	297·8	294·6	16th	299·4	*299·1*	—0·8	104	— 51
1057	ϕChristmas Island	10 25	105 43	5·5	1006·9	1007·5	— 0·8	303·7	305·2	1, 29, 30,	297·2	296·3	6, 12, 18,	300·5	*299·7*	0·0	277	— 22
1061	Kupang	10 10	123 34	45·1	1005·1	1010·4	— 0·2	305·5	307·0	7th	295·3	292·8	30th	300·4	299·6	+0·4	6	— 24
1061a	ϕDerby	17 18	123 40	16·2	1011·0	1012·9	— 0·6	304·0	307·4	21st, 22nd	292·3	288·1	14th	298·4	..	+0·2	0	— 24
1062	ϕHall's Creek	18 13	127 46	373	971·9	1013·7	— 1·6	302·7	304·6	19th, 29th	285·0	281·3	10th, 14th	293·8	*293·2*	—0·7	31	— 24
1063	Darwin	12 28	130 51	29·6	1007·3	1010·6	— 0·3	305·8	307·9	16th	295·9	293·1	26th	300·8	*299·6*	+0·1	42	— 14
1064	Daly Waters	16 16	133 23	211	987·1	1010·8	— 2·2	304·4	308·6	5th	287·9	284·7	18th	296·2	*295·6*	—0·5	10	— 14
1065	ϕMein	13 13	142 47	122	996·2	1009·9	— 0·9	302·8	305·0	1st	..	..	..	..	..	..	1	— 24
1066	ϕGeorgetown, Queensland	18 22	143 32	302	979·3	1013·0	— 1·2	305·0	308·7	3rd	288·8	283·0	20th	296·9	..	+1·2	0	— 24
1066a	Willis Island	16 18	149 59	8·5	1011·9	1012·9	..	300·3	301·1	2nd	296·8	293·1	7th	298·6	*298·3*	..	45	— 24
1067	Samarai	10 37	150 40	15·2	..	1010·6	— 0·2	301·6	..	..	296·2	..	..	298·9	*298·6*	—0·3	386	— 61
1072	Suva, Fiji	18 8	178 26	6·1	1012·6	1013·3	— 1·0	299·7	301·3	5th	294·5	291·8	15th, 27th	297·1	*296·8*	—0·6	189	— 61
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 122.
ϕ Change of normals *see* pages 112 and 113.

MAY—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1095	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	299·5	302·4	6th	293·5	289·9	14th, 23rd	296·5	*296·2*	+0·3	85	— 78
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1013·9	1017·2	+ 0·5	288·3	290·5	9th	282·9	280·3	23rd	285·6	*285·5*	—1·1	0	— 30
1122	Iquique	20 12	70 11	9	1014·8	1015·9	+ 0·6	291·6	293·7	26th	286·1	284·1	18th	288·9	*289·5*	—0·6	2	+ 2
1123	Catamarca	28 27	65 47	510	957·5	1016·8	+ 3·4	295·0	302·8	5th	279·1	270·2	23rd	287·1	287·0	—2·1	0	— 13
1124	Salta	24 46	65 28	1178	885·5	1017·2	+ 2·8	292·9	299·3	4th	276·7	268·6	24th	284·8	284·7	—2·8	4	— 5
1125	Goya	29 9	59 15	26	1014·1	1017·2	+ 2·7	293·8	302·0	3rd	283·9	274·0	14th	288·9	287·3	—2·0	68	— 1
1126	Asuncion	25 17	57 41	93	1006·3	1017·4	+ 2·5	297·7	307·5	3rd	285·0	276·0	14th	291·4	289·8	—2·2	188	+ 67
1127	Curityba	25 25	49 17	908	914·2	1017·1	— 1·3	292·4	297·4	2nd	281·3	269·4	14th	286·8	*286·2*	—0·6	139	+ 35
1128	Rio de Janeiro	22 54	W43 10	33·0	1012·1	1015·9	— 0·9	299·9	304·8	6th	292·3	286·2	27th	296·1	295·5	+0·7	‡60	..
1139	ϕWindhoek	22 34	E17 5	1669	..	..	..	294·6	296·9	16th	282·9	279·9	30th	288·8	*288·8*	0·0	16	+ 8
1140	Kimberley	28 42	24 47	1202	884·7	1019·3	— 1·3	292·8	299·0	10th	279·1	273·6	26th	285·9	285·4	—0·2	20	0
1141	Johannesburg	26 11	28 4	1806	823·9	1018·9	— 1·0	291·2	295·3	15th	280·4	272·9	17th	285·8	*283·4*	+0·4	4	— 15
1142	Bulawayo	20 9	28 35	1340	870·5	1015·7	— 0·7	296·3	299·7	24th	282·0	277·3	24th	289·2	*288·4*	0·0	2	— 5
1143	Durban	29 52	31 3	15·2	1017·9	1019·7	— 0·9	296·9	303·8	23rd	288·9	284·8	18th	292·9	*292·3*	+0·4	13	— 35
1145	Lourenço Marques	25 58	32 36	59	..	1018·2	— 0·8	299·8	308·5	24th	287·9	284·7	21st	293·9	293·2	—0·1	3	— 37
1146	Tuléar	23 23	43 40	4	..	..	..	..	..	..	284·9	283·0	..	..	..	..	40	..
1147	Fort Dauphin	25 2	46 58	25	1007·7	1014·1	— 2·3	298·6	301·1	3rd	293·8	289·1	31st	296·2	295·8	+0·5	258	+181
1149	Mauritius	20 6	57 33	55·2	..	1017·0	..	297·5	301·0	..	291·8	288·0	..	294·7	*294·3*	..	79	..
1160	Onslow	21 43	114 57	4·3	1012·8	1013·7	— 0·7	302·2	305·7	14th	287·2	281·7	8th	294·7	..	—0·5	3	— 33
1161	Cue	27 27	117 52	454	964·5	1016·4	— 0·7	295·9	303·9	17th	283·1	278·0	20th	289·5	..	—0·6	9	— 17
1162	ϕNullagine	21 53	120 5	386	970·6	1014·0	— 1·8	301·4	305·6	17th	284·3	277·9	30th	292·9	..	—0·2	11	— 8
1163	Laverton	28 40	122 23	466	963·1	1016·2	— 3·2	296·4	304·4	17th	282·1	275·8	20th	289·2	*289·1*	+0·5	4	— 21
1164	Alice Springs	23 38	133 37	587	948·4	1014·4	— 4·8	298·2	303·6	19th	281·0	276·0	25th	289·6	*289·5*	+1·2	22	+ 5
1165	ϕWilliam Creek	28 55	136 21	76·2	1006·5	1015·4	— 4·8	297·6	305·8	18th, 19th	284·4	278·6	16th	291·0	*290·7*	+2·8	18	+ 8
1166	Boulia	22 55	139 38	146	996·0	1013·3	— 2·6	302·2	307·3	2nd	286·2	280·9	22nd	294·2	*294·1*	+1·4	9	— 2
1167	Thargomindah	27 58	143 43	123	1000·4	1014·7	— 3·4	297·2	303·1	20th	284·4	279·8	25th	290·8	*290·6*	+0·9	9	— 12
1168	Mitchell	27 32	147 52	336	977·0	1015·0	..	298·7	304·4	20th	280·3	274·9	24th	289·5	..	+1·8	3	— 36
1197	ϕRockhampton	23 24	150 30	11·3	1015·1	1016·3	— 1·1	301·9	304·9	21st	287·3	283·4	23rd	294·6	..	+1·2	0	— 41
1198	ϕBrisbane	27 28	153 2	41·8	1010·2	1015·0	— 3·6	298·9	305·4	21st	286·4	283·8	13th, 25th	292·7	*292·2*	+1·6	10	— 61
1199	ϕNorfolk Island	29 4	167 59	15·2	1013·2	1015·0	— 2·9	295·2	298·6	17, 18, 19	..	..	..	..	..	..	72	— 67
		S.	E.															

MAY—ZONE 12.

Between Latitude 30° S. and 40° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1221	Juan Fernandez	33 37	78 50	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1222	Punta Tumbes	30 37	73 6	120	1005·0	1019·6	+3·0	287·0	295·0	23rd	279·7	275·0	13th	283·3	*283·5*	—1·9	14	— 73
1223	Punta Angeles, Valparaiso	33 1	71 38	41	1012·4	1017·4	+0·4	289·0	293·6	11th	281·1	278·4	24th	285·1	*284·4*	—2·5	0	— 92
1224	Santiago	33 27	70 42	520	956·3	1017·9	+0·8	291·3	300·4	24th	275·1	270·9	21st	283·2	*281·9*	—1·4	7	— 58
1225	Cordoba	31 25	64 12	423	968·0	1018·1	+2·7	293·4	298·8	1st	276·3	266·4	13th	284·9	284·0	—2·2	63	+ 37
1226	Bahia Blanca	38 45	62 15	25	1013·0	1016·2	+1·7	289·1	295·5	3rd	278·2	271·2	21st	283·7	283·4	—1·1	37	+ 8
1227	Buenos Ayres (Chacarita)	34 36	58 22	25	1015·0	1017·8	+1·0	290·5	298·2	2nd	279·1	271·8	14th	284·8	284·6	—1·2	17	— 56
1228	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1014·8	—0·7	..	..	..	295·0	..	3rd	..	..	..	5	— 92
1229	ϕPorto Alegre	30 2	W51 13	23·5	1012·9	1015·7	—2·0	292·6	299·4	1st	284·1	271·8	15th	288·3	288·2	—2·1	106	— 3
1240	ϕCape Town	33 56	E18 29	12·2	..	1016·8	—1·2	291·6	300·2	29th	283·2	277·2	18th	287·4	*285·9*	—0·5	136	+ 41
1241	Danger Point	34 37	19 18	27·7	1011·7	1015·0	..	290·8	297·4	11th	283·7	279·7	18th	287·2	..	—0·7	202	+127
1242	Riversdale	34 6	21 16	‡?100	1004·9	1016·9	..	293·0	303·0	30th	279·9	273·6	18th	286·5	..	..	76	+ 31
1243	East London	33 2	27 55	44·8	..	1017·6	—0·5	295·2	301·9	8th	284·5	279·7	18th	289·8	..	0·0	17	— 27
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1007·9	1015·3	—3·1	293·6	297·5	13th	286·0	280·2	22nd	289·8	*289·8*	+0·9	167	+ 41
1260	Katanning	33 42	117 35	310	977·3	1014·0	—4·3	290·4	295·2	13th	282·2	277·5	23rd	286·3	..	+0·4	119	+ 67
1261	Coolgardie	30 57	121 10	423	966·2	1015·0	—4·2	294·4	302·0	17th	281·5	276·4	20th	288·0	*287·9*	+0·7	11	— 24
1262	Esela	31 45	128 58	4·6	1012·1	1012·6	—6·4	296·3	307·9	18th	284·7	280·7	24th	290·5	*290·1*	+1·6	6	— 26
1263	Streaky Bay	32 48	134 13	13·1	1011·7	1013·1	—7·7	294·5	302·7	3rd	286·7	282·7	16th	290·6	*290·1*	+2·7	36	— 13
1264	ϕAdelaide	34 56	138 35	42·7	1007·1	1012·1	—7·9	293·4	301·8	4th	285·8	281·3	16th	289·6	*289·4*	+2·2	119	+ 48
1265	ϕMelbourne	37 49	144 58	35·1	1005·5	1009·6	—9·7	290·9	297·7	5th	282·5	275·8	27th	286·7	*286·4*	+1·4	45	— 10
1266	Bourke	30 13	145 58	110	1005·1	1018·4	—3·5	298·5	304·7	7th	283·3	278·6	17th, 25th	290·9	..	+2·5	13	— 14
1267	ϕSydney	33 51	151 13	42·1	1007·1	1012·1	—6·4	294·7	302·4	20th	285·4	280·2	27th	290·1	*289·4*	+2·2	24	—108
1268	ϕLord Howe Island	31 20	159 0	4·6	1013·2	1013·8	—3·8	295·1	297·2	1st	288·9	282·3	29th	292·0	..	+0·8	66	— 75
1271	Auckland	36 50	174 50	38·1	..	1009·5	—5·6	290·2	292·5	3rd	284·8	280·3	17th	287·5	..	+0·8	105	— 7
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

MAY—ZONE 13.

Between Latitude 40° S. and 50° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1005·0	..	..	..	..	..	..	..	..	..	..	165	+ 67
1321	Isla Guafo	43 34	74 45	140	1001·1	1018·2	+6·4	283·5	285·0	17th	279·2	276·2	11th	281·3	*281·5*	—0·8	81	— 53
1322	Punta Galera	40 1	73 44	40	1015·4	1020·3	+5·8	283·8	286·6	23rd	279·8	275·8	13th	281·8	*282·3*	—2·0	129	—196
1324	Sarmiento	45 30	69 0	274	979·6	1011·2	+1·0	286·3	290·7	23rd	273·9	267·3	12th	280·1	280·1	+0·4	2	— 16
1325	Puerto Madryn	42 49	W64 58	14	1011·6	1013·0	+1·8	289·3	294·9	8th	277·2	270·0	13th	283·3	283·1	—0·4	11	— 9
1365	Launceston	41 27	E147 10	10·1	1001·3	1002·5	—14·1	288·1	295·7	1st	278·9	271·8	27th	283·5	*282·9*	+0·7	232	+165
1366	ϕHobart	42 53	147 20	53·9	994·4	1001·0	—14·3	287·1	293·4	2nd	279·8	274·2	27th	283·4	*282·8*	+0·1	115	+ 67
1370	Invercargill	46 25	168 21	3·7	..	..	..	285·1	290·2	2nd	275·1	270·2	30th	280·1	..	—0·6	61	— 53
1371	Dunedin	45 52	170 31	91·4	..	1009·2	— 4·0	285·0	289·7	20th	278·4	273·6	29th	281·7	..	+0·3	114	+ 33
1372	Christchurch	43 31	172 39	7·6	..	1008·4	— 6·6	285·6	291·1	23rd	277·6	270·7	30th	281·6	..	—0·2	173	+106
1373	Wellington	41 16	174 46	3·0	..	1009·2	— 5·7	288·3	292·4	21st	282·0	275·6	31st	285·2	..	+0·7	241	+122
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

MAY—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas .	52 24	75 6	55	994·8	1001·5	+ 1·2	281·3	282·6	23rd	277·1	272·8	11th	279·2	*279·3*	+0·7	378	+140
1422	Puerto de Punta Arenas .	53 10	70 54	28	996·3	999·7	− 2·4	280·9	284·8	1st	276·1	272·4	12th	278·5	*278·9*	+1·8	19	− 5
1423	Punta Dungeness . .	52 24	68 26	5	999·6	1000·2	− 0·3	282·0	284·0	7th, 23rd	276·6	272·5	12th	279·3	*279·3*	+1·1	9	− 10
1424	Santa Cruz . . .	50 11	68 21	12	1003·1	1004·0	+ 0·9	285·6	288·4	1, 2, 3	275·3	270·7	12th, 13th	280·5	280·5	+2·4	5	..
14244	‡Año Nuevo . . .	54 39	64 8	50	..	..	..	279·1	282·5	21st	275·2	272·0	26th	277·1	*277·4*	+0·4	72	..
1425	Stanley, Falkland Is. .	51 42	57 51	1·8	..	1004·3	..	280·1	284·7	23, 24, 25	274·6	271·3	13th	277·3	..	..	..	..
1426	Cape Pembroke . .	51 41	57 42	21·3	999·7	1002·3	+ 1·3	279·8	282·4	18th	275·4	270·8	13th	277·6	278·1	+0·4	..	..
1429	S. Georgia (Cumberland Bay)	54 14 S.	36 33 W.	4	996·4	996·9	+ 1·3	276·9	282·9	18th	270·2	266·2	28th	273·5	*273·9*	+0·8	208	+ 67

MAY—ZONE 15. Between Latitude 60° S. and 70° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
1527	South Orkneys. . .	60 44 S.	44 39 W.	7	988·8	989·7	− 3·2	271·4	276·2	7th	266·7	260·4	6th	269·1	269·1	+3·4	69	− 39
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—MAY 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	ESE	4·2	E 2	NNW 1	WSW 1	S 1	S 1	EbyS 2	ESE 3	Calm 0	NE 2	NE 3	Calm
2	ESE	5·1	SE 2	SW 1	SW 2	N 1	SW 1	EbyS 4	EbyS 3	SE 4	ENE 1	E 2	Calm
3	SE	6·7	E 1	SW 1	W 1	SE 2	SE 1	E 3	EbyS 2	SE 6	NNE 2	Calm 0	Calm
4	SE	7·3	NW 1	WNW 1	SW 1	SE 1	S 1	EbyN 2	EbyS 3	Calm 0	NE 2	E 1	E
5	ESE	5·5	E 3	N 1	SW 2	NE 1	NW 1	ESE 4	SE 3	Calm 0	NE 1	NE 1	Calm
6	ESE	5·3	E 1	WNW 1	W 1	NE 1	NE 2	SE 3	ESE 2	NW 2	NE 1	ENE 1	Calm
7	ESE	6·6	Calm 0	Calm 0	WSW 1	NE 1	SW 2	ESE 2	NNE 2	Calm 0	NE 2	NE 1	E
8	ESE	4·7	NE 2	Calm 0	SSW 1	SW 1	SW 1	E 3	SE 2	Calm 0	NE 1	Calm 0	Calm
9	ESE	4·2	ENE 2	WNW 1	SW 1	SW 2	SW 2	EbyS 2	EbyN ..	..	NE 1	Calm 0	SE
10	SE	3·8	ENE 2	SSW 1	SW 2	SW 1	SW 1	E 2	N 4	..	NE 1	NE 1	E
11	Calm	1·8	SE 2	NW 1	SW 2	NE 1	SW 1	NW 3	NW 2	SE 2	E 1	Calm 0	N
12	SSE	2·6	E 2	NW 1	SW 1	NE 1	S 2	Calm 0	SE ..	SE 4	ENE 3	NE 2	N
13	ESE	3·6	ENE 2	Calm 0	SW 2	S 2	NE 2	E 1	SE 3	SE 2	ENE 1	ENE 2	NE
14	Calm	0·8	E 3	E 1	SW 2	NW 2	NE 2	E 3	E 3	SE 1	NE 2	ENE 1	Calm
15	Calm	1·1	E 3	NW 2	SW 3	NE 1	NW 1	E 3	E 5	SE 2	E 2	E 3	E
16	ESE	6·0	E 2	W 2	SW 2	NE 1	NW 1	E 5	E 3	SE 2	E 2	ENE 2	E
17	ESE	10·0	E 3	NE 3	SW 2	NE 2	NW 1	E 4	E 3	..	ENE 1	ENE 2	Calm
18	SE	6·6	ESE 4	SE 4	Calm 0	N 1	SE 2	EbyS 4	E 2	SE 1	ENE 2	ENE 2	Calm
19	SE	1·8	Calm 0	NE 2	SW 3	E 2	SE 1	ENE 3	EbyS ..	SE 2	E 2	E 2	N
20	Calm	0·4	ENE 3	E 4	SW 2	SW 1	SE 1	ESE 2	E ..	SE 2	E 2	E 2	E
21	Calm	0·6	E 3	E 2	SW 1	SE 1	SW 1	E 3	E 2	Calm 0	ESE 2	ESE 2	SE
22	Calm	0·9	E 3	E 3	SW 1	NW 1	Calm 0	E 4	E ..	SE 2	E 2	E 1	SE
23	SSE	3·0	ENE 3	NE 1	SW 1	N 2	NW 1	E 3	E 3	SE 6	E 1	E 1	ESE
24	ESE	6·1	S 3	NE 1	SW 2	Calm 0	NE 1	EbyS 5	EbyS 4	SE 2	E 1	E 1	SE
25	ESE	4·6	SE 3	SW 1	SW 3	SE 1	NE 1	E 5	E 2	SE 2	E 2	E 1	E
26	ESE	2·5	E 3	SW 3	SW 3	NE 1	SE 1	E 3	EbyN 2	Calm 0	ENE 2	E 2	N
27	ESE	5·2	ENE 3	Calm 0	SSW 4	S 1	S 1	E 5	EbyS 4	SE 2	E 1	E 2	N
28	ESE	5·4	E 2	E 1	Calm 0	S 1	SE 1	E 4	EbyS 3	Calm 0	E 2	E 2	S
29	SE	3·2	Calm 0	NE 1	SW 2	S 1	Calm 0	E 5	EbyS 4	SE 4	E 1	Calm 0	SE
30	Calm	1·3	ENE 3	NE 1	SSW 2	SE 2	SE 1	EbyN 6	EbyN 3	Calm 0	E 1	Calm 0	E
31	Calm	1·8	ESE 3	E 1	SSW 2	NW 1	S 2	EbyS 4	EbyS 4	Calm 0	E 1	ESE 3	
Mean	..	4·0	2·2	1·4	1·7	1·2	1·2	3·3	2·9	1·7	1·5	1·4	
§Resultant	125° (68)	..	90° (74)	235° (36)		145° (16)		95° (87)		135° (57)	75° (82)		
§Normal	139° (86)	6·0	‖84° (73)	275° (18)		240° (42)		‖‖83° (79)		129° (73)	‖105° (56)		

‖Normal refers to ½ (9 + 21). ‖‖Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—MAY 1923.

‡‡*White Sea.*—Navigation opened at Archangel on the 19th, but there was still much ice, which, owing to the changeable winds, kept drifting to and fro in the sea.

‡‡*Barents Sea.*—The position of the ice edge, which consisted at first of heavy winter ice, later of scattered ice, in the eastern part was about normal while in the northern part the scattered ice edge was about 100 miles more northerly than usual. At Bear Island the sea was open from the 1st. The area covered was 885×10^3 sq. km. as compared with a normal of 981×10^3 sq. km.

‡‡*Spitsbergen.*—From the 1st to 10th no ice was observed along the west coast, but from the 11th to 31st ice was met with between South Cape and the south point of Prince Charles Foreland. Icefjord was free of ice, Green Harbour was partly open and Bell Sound was filled with pack ice.

‡‡*Iceland.*—The coasts of Iceland and Grimsey were free of ice except on the 27th, when polar ice was observed north of Isafjord Bay. The normal duration of average ice conditions is 6 days visible and 1 day heavy.

‡‡*Greenland Sea and Denmark Strait.*—At Angmagsalik there was ice everywhere except for a broad land water, but from the 25th no ice was visible in the offing. The fjord ice had disappeared by the middle of the month. The area covered was 1082×10^3 sq. km. as compared with a normal of 1062×10^3 sq. km.

‡‡*N. Atlantic and Labrador.*—Eighty-three icebergs were observed on the Newfoundland Banks south of the 48th parallel, the normal being 147. North of the 48th parallel the drift of icebergs was decreasing, the eastmost occurring in 44°W. During the month the St. Lawrence River to Cape Rosier, Northumberland Strait and part of Cabot Strait became free of ice. There was however still closely packed ice in Belle Isle Strait and the north-east of the Gulf of St. Lawrence.

‡‡*Davis Street and Baffin Bay.*—Scattered ice lay along the coast from Cape Farewell to Frederikshaab, but the belt was much narrower than usual. At Kagsimiut the ice however was packed. Except for a small mass of "Storis" off Fiskernaes the sea was free of ice from there to Disko. Disko Bay was free of ice from the 10th. During the month the ice left the harbours at Godthaab and Egedesminde. In Umanak Fjord there was firm ice. There was unbroken ice in Lyon Inlet and Gore Bay, and the edge extended from Winter Island to Vansittart Island. The middle of Frozen Strait was frozen over.

‡‡ *Isforholdene i de arktiske Have*, 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, JUNE 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF JUNE 1923

BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. JUNE—ZONE 1.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	1014·5	..	276·4	286·3	20th	271·9	268·0	3, 4, 5	274·2	..	−0·3	4	− 4
123	Inglefield Bay . . .	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124	Upernivik	72 47	56 7	19·2	1005·1	1007·4	− 4·6	279·3	284·6	30th	271·1	268·0	1st	275·2	*275·6*	+0·9	7	− 6
125	Germaniahavn . .	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133	Jan Mayen . . .	70 59	W 8 18	23·1	1007·7	1010·6	..	..	281·2	29th	271·6	267·9	1st	..	*274·0*	..	23	..
135	♯Spitsbergen (GreenHarbour)	78 2	E 14 14	11·4	1003·7	1005·1	− 7·8	..	283·4	26th	272·8	267·0	4th	..	274·8	−0·1	10	− 1
139	Björnöen	74 28	19 15	40·5	997·7	1002·8	..	..	278·8	21st	271·8	267·1	4th	..	*273·4*	..	31	..
140	Gjesvaer	71 6	25 22	6·5	1000·7	1001·5	−11·6	..	288·8	20th	276·6	272·2	3rd	..	*278·9*	−1·1	64	+ 18
141	Mehavn	71 1	27 47	4·6	1000·4	1001·4	−10·9	..	287·5	20th	275·8	269·1	4th	..	*278·9*	−0·8	71	+ 28
142	Vardö	70 22	31 8	6·8	1001·0	1001·8	−11·5	..	286·0	30th	276·7	271·4	4th	..	*279·0*	+0·3	51	+ 13
147	Malye Karmakouly . .	72 23	52 43	14·8	1003·5	1005·3	− 6·2	279·0	289·5	29th	273·2	268·3	6th, 9th	276·1	*275·7*	+1·1	30	+ 14
148	Waigatz	70 24	58 47	11·2	1004·7	1006·1	− 5·3	279·7	290·5	24th, 25th	273·5	265·7	5th	276·6	*276·4*	..	11	..
153	Dickson	73 30 N.	80 23 E.	13	1002·8	1004·4	..	276·7	291·0	24th	272·0	265·4	1st	274·4	..	..	35	..

Between Latitude 70° N. and 60° N. JUNE—ZONE 2.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
203	Nome	64 30 N.	165 24 W.	6·7	..	1012·5	+ 1·0	285·2	294·1	12th	277·5	269·7	11th	281·3	*281·9*	+1·1	33	+ 1
204	Candle	65 55	161 57	2·4	..	..	..	287·7	294·7	21st	275·7	270·2	4th, 11th	281·7	..	+0·1	..	..
205	Tanana	65 10	152 6	67·1	..	1011·2	− 1·2	294·0	302·4	8th, 9th	280·3	273·0	26th	287·2	..	+0·4	32	+ 7
206	Rampart	65 30	150 15	122	..	..	..	294·9	301·3	6th, 8th	279·9	273·0	26th	287·4	..	0·0	28	+ 3
207	Valdez	61 7	146 16	8·2	..	..	..	288·9	294·7	26th	279·2	272·4	27th	284·1	..	+0·4	57	+ 11
208	♦Eagle	64 46	141 12	254	..	1010·5	+ 0·2	296·0	305·8	7th	275·7	275·2	1, 4, 5	285·9	..	−0·5	68	+ 29
209	♦Dawson	64 4	139 29	324	971·8	1009·6	− 0·5	296·3	305·8	6th, 7th	280·8	274·1	5th	288·6	..	+1·8	38	+ 8
210	Carcross	60 11	134 34	662	..	..	..	295·8	302·4	10th	275·2	270·8	3rd	285·5	..	+2·2	10	− 10
211	Fort Good Hope . .	66 25	128 53	65·2	1005·8	1013·6	..	295·4	301·9	23rd	281·7	273·6	1st	288·6	..	..	24	+ 8
212	Fort Simpson . .	61 52	121 35	129	995·9	1011·3	− 0·5	295·6	301·3	12, 14, 23	281·3	274·7	7th, 30th	288·4	..	+2·3	46	+ 4
213	Hay River . . .	60 51	115 20	161	992·1	1011·6	+ 0·3	287·7	299·7	15th	277·2	271·3	8th	282·4	..	−0·4	17	− 17
225	Jacobshavn . . .	69 13	51 2	12·6	1005·4	1006·9	− 4·1	281·9	292·4	27th	275·5	270·1	12th	278·7	*278·7*	+1·0	22	+ 1
226	Godthaab	64 11	51 43	20·4	1003·1	1005·6	− 3·9	283·7	289·2	25th	275·6	272·4	11th	279·7	*278·8*	+1·4	66	+ 33
227	Ivigtut	61 12	48 10	13·0	1004·8	1006·4	− 3·2	284·3	291·6	26th	277·1	273·6	20th	280·7	*280·4*	−0·7	174	+ 97
229	Angmagsalik . . .	65 37	37 33	31·7	1004·8	1008·7	− 4·5	282·3	286·5	28th	274·7	271·5	9th	278·5	*278·0*	+0·1	92	+ 39
231	Stykkisholm . . .	65 5	22 46	25	1008·3	1011·4	+ 0·2	284·7	290·0	28th	278·4	275·1	11th, 13th	281·5	*281·2*	+0·4	77	+ 38
232	Vestmanno	63 24	20 17	132	996·0	1012·1	+ 0·1	284·1	288·3	19th	279·2	276·8	10th	281·7	*280·7*	−0·7	105	+ 22
233	Grimsey	66 33	18 1	22·0	1008·7	1011·4	− 1·2	284·1	286·3	30th	276·9	273·7	19th	280·5	*279·1*	+0·6	27	+ 9
234	Teigarhorn (Berufjord)	64 41	14 22	18·0	1008·8	1011·0	− 1·3	287·3	293·3	25th, 28th	277·8	273·8	14th	282·5	*281·6*	+1·3	50	− 15
236	♦Thorshavn . . .	62 3	6 45	26·3	1009·1	1012·3	− 1·7	284·3	289·5	28th	278·3	273·0	17th	281·3	*281·0*	−0·8	56	− 12
237	Lerwick	60 9	W 1 11	18·0	..	1012·9	− 1·1	283·9	286·9	28th	279·4	276·3	5th	281·7	*281·7*	−1·1	56	+ 11
238	Bergen (Met. Obs.) .	60 24	E 5 19	44·4	1003·7	1009·1	− 4·8	284·0	287·3	30th	279·2	277·0	6th	281·6	*281·3*	−4·2	121	+ 32
239	Aalesund	62 28	6 10	6·3	1007·8	1008·6	− 5·2	..	286·6	19th	278·7	276·1	5th	..	*280·3*	−3·8	169	+116
240	Trondhjem	63 26	10 25	39·5	1001·7	1006·5	− 6·8	283·7	289·3	18th	277·9	273·8	6th	280·8	*280·4*	−4·6	115	+ 73
241	Bodö	67 17	14 24	22·3	1000·9	1003·6	− 9·9	..	286·0	19th	277·4	273·0	2nd	..	*279·7*	−3·1	69	+ 16
242	Haparanda	65 50	24 9	9·2	1001·2	1002·3	− 8·8	285·1	293·0	20th	278·1	272·5	4th, 6th	281·6	*281·6*	−2·9	93	+ 56
2422	♦Helsingfors . . .	60 10	24 57	11·7	1004·0	1005·4	− 7·0	287·0	294·6	19th	280·0	273·9	5th	283·5	*283·3*	−3·5	61	+ 15
243	Kuopio	62 54	27 40	90·3	992·4	1003·3	− 9·7	286·0	293·4	20th	279·1	273·4	5th	282·5	*283·1*	−3·3	88	+ 30
244	Kola	68 53	33 1	6·7	1001·8	1002·6	−10·2	285·8	296·0	23rd	278·2	271·4	2nd	282·0	*282·3*	+0·5	51	+ 21
245	Petrozavodsk . .	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
246	Arkhangelsk . . .	64 34	40 31	6·3	1005·2	1006·0	− 6·0	280·6	301·4	21st	281·8	272·8	3rd	285·7	*285·4*	+0·5	84	+ 39
247	♦Mezen	65 50	44 16	14·9	1004·6	1006·4	− 5·7	288·7	302·2	29th	279·5	270·7	1st	284·1	*284·3*	+1·5	78	+ 36
248	Oust-Tsylma . . .	65 25	52 18	? 68	..	..	..	290·8	304·3	23rd	280·5	270·2	1st	285·6	*285·9*	+2·7	24	− 26
	♦Tcherdyn . . .	60 24	56 31	?177	990·2	1011·0	+ 1·1	295·6	304·0	30th	284·7	273·4	2nd	290·2	*290·3*	+3·6	76	+ 24
249	Berezov	63 56	65 4	39·5	1008·6	1013·3	+ 2·5	290·9	302·3	29th	282·4	270·4	2nd	286·6	*287·2*	+3·7	14	− 37
250	Obdorsk	66 31	66 35	23·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
251	♦Sourgout	61 15	73 24	? 40	1008·0	1012·8	+ 3·5	..	301·0	28th	282·1	273·1	2nd	..	*288·2*	+2·6	56	− 3
252																		
253																		
254	Doudinka	69 23	86 4	20·0	1006·7	1009·1	+ 1·2	..	297·6	25th	276·2	270·6	2nd	..	*279·1*	+1·5	15	− 19
	Touroukhansk . .	65 47	87 57	45·0	1005·1	1010·6	+ 1·5	..	300·8	27th	277·9	270·8	3rd	..	*282·9*	+1·5	56	+ 16
261																		
262	Vilionisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
263	Iakoutsk	62 1	129 43	108	993·0	1005·5	0·0	..	300·2	19th	279·3	273·5	4th	..	*286·2*	−2·6	19	− 18
	Verkhoiansk . . .	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ♦ Change of normals *see* pages 105 and 106.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1007·8	— 4·9	280·6	284·1	30th	275·9	271·9	6th	278·2	..	..	68	+ 26
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1007·4	— 7·8	283·3	287·4	28th, 29th	277·7	274·1	7th	280·5	*280·1*	—0·3	110	+ 30
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	286·6	291·3	17th	278·1	274·1	23rd, 24th	282·3	..	—2·1	41	+ 12
306	Kodiak (Radio)	57 46	152 22	6·1	..	1013·2	— 0·9	285·7	293·0	26th	278·9	276·9	sev. dates	282·3	*282·3*	—0·6	127	+ 19
307	55°—50° N. 150°—145° W.	††51 40	††147 59	§(19)	..	1016·6	+ 1·0	..	..	Sea Temp. 281·3	..	..	..	..	281·3	0·0	..	..
309	Sitka	57 3	135 19	27·4	..	1015·6	— 1·0	289·4	297·4	5th, 6th	280·6	276·3	14th	283·0	*285·2*	+1·2	30	— 56
310	Prince Rupert	54 18	130 18	51·8	1008·6	1014·9	— 1·9	290·2	299·1	6th	280·8	278·0	19th	285·5	*285·3*	+0·8	29	— 58
311	Barkerville	53 2	121 35	1274	866·9	1008·2	— 3·1	291·3	299·3	30th	278·6	271·9	15th	284·9	*284·4*	+2·0	69	— 20
312	Kamloops	50 41	120 29	385	968·8	1013·3	— 2·6	297·6	305·4	30th	284·5	278·6	15th	291·1	*290·9*	+0·5	79	+ 48
313	Calgary	51 2	114 2	1045	892·6	1009·2	— 0·5	294·1	302·4	29th	280·8	277·4	5th	287·4	*287·1*	+0·9	106	+122
314	Fort Chipewyan	58 42	111 10	218	985·7	1011·3	+ 0·2	293·0	300·2	15th	283·0	276·9	28th	288·0	*288·8*	+2·8	1	— 37
315	Prince Albert	53 10	105 38	442	959·9	1011·0	+ 2·0	295·2	304·1	16th	283·6	278·0	29th	289·4	*289·1*	+1·8	94	+ 20
316	Qu'Appelle	50 30	103 47	645	934·8	1007·9	— 2·1	296·3	305·2	16th	284·1	278·6	6th	290·2	*290·0*	+2·1	209	+121
317	Minnedosa	50 15	99 50	515	951·9	1010·9	— 0·6	296·6	302·7	22nd	284·4	276·1	28th	290·5	*290·2*	+2·0	93	+ 14
318	Berens River	52 18	97 23	216	..	..	..	296·1	300·2	14th	280·7	275·8	6th, 11th	288·4	..	+1·3	101	+ 57
318a	ϕPort Nelson	57 0	92 51	14·9	1013·3	1015·1	+ 1·8	286·4	306·3	16th	275·6	269·1	3rd, 6th	281·0	..	+0·0	70	+ 17
319	Fort Hope	51 33	87 49	‡260	981·7	1012·4	— 1·1	293·6	306·9	17th	280·8	272·4	6th	287·2	*287·4*	+0·3	43	— 7
320	ϕMoose Factory	51 14	80 39	9·1	1011·8	1012·9	— 0·1	291·0	306·9	17th	277·3	270·8	14th	284·1	..	—1·7	33	— 25
321	Fort George	53 50	79 5	97·5	..	..	..	283·9	296·3	23rd, 30th	275·9	269·7	2nd	279·9	*279·8*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	293·1	303·0	18th	276·5	269·7	5th	284·8	..	—0·8	27	— 48
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	286·6	293·6	27th	276·8	272·4	4th	281·7	..	—1·2	41	— 20
326	ϕBelle Isle	51 53	55 23	130	988·4	..	..	280·5	288·6	26th	273·9	270·2	1st	277·2	*277·1*	—0·9	64	— 72
331	55°— 50° N. 30°— 25° W.	††52 19	††27 32	§(55)	..	1024·7	..	..	..	Sea Temp. 285·9	..	..	..	..	287·1	..	..	..
333	53°—48° N. 20°—15° W.	††50 16	††17 26	§(37)	..	1028·2	..	..	..	286·9	..	..	..	..	287·0	..	..	..
333a	02°—57° N. 20°—15° W.	††59 33	††17 5	§(53)	..	..	..	..	..	282·9	..	..	..	..	283·2	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1025·7	+ 9·7	287·9	290·8	28th	283·8	280·2	2nd	285·9	285·7	—1·1	24	— 64
335	Aberdeen	57 10	W 2 6	26·8	..	1016·4	+ 1·5	287·8	294·7	23rd	280·7	276·3	15th	284·2	284·2	—0·2	22	— 39
336	ϕGreenwich	51 28	0 0	46·3	..	1020·4	+ 4·0	291·4	299·1	23rd	281·6	274·7	3rd	286·5	286·1	—1·9	12	— 18
337	Uccle	50 48	E 4 22	100	1007·3	1019·4	+ 3·2	290·8	296·9	24th	280·8	275·8	7th	285·8	284·7	—3·1	49	— 25
338	De Bilt	52 6	5 11	3·0	1017·7	1018·1	+ 2·2	288·7	294·5	11th	281·0	274·5	19th	284·9	284·6	—3·8	34	— 5
338a	Hamburg	53 33	9 58	40·3	1010·7	1015·6	+ 0·6	287·4	292·2	10th	281·5	278·0	7th	284·5	*284·2*	—4·7	95	+ 10
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1009·1	1009·7	— 4·5	288·3	293·0	1st	280·8	277·4	7th	284·5	*284·7*	—2·2	35	+ 2
340	Potsdam	52 23	13 4	84·9	1004·1	1014·4	— 0·6	288·5	296·3	24th	281·4	277·6	16th	284·9	284·6	—4·7	61	0
340a	Uppsala	59 51	17 38	24	1002·0	1004·9	— 7·9	288·2	294·9	19th	278·4	272·2	5th	283·3	283·2	—3·9	51	..
341	Warsaw	52 13	21 3	89·9	1002·3	1013·1	+ 0·4	290·1	297·3	1st	282·0	276·7	8th	286·0	285·9	..	53	+ 27
342	Tartu (Ülikooli)	58 23	26 43	74·5	998·7	1007·7	— 5·0	288·8	298·1	19th	279·9	273·9	3rd	284·4	283·9	—4·1	85	— 1
343	Petrograd	59 56	30 16	4·8	1006·0	1006·6	— 5·9	288·0	299·1	19th	280·9	275·9	6th	284·4	*284·5*	—3·2	68	+ 13
344	Kiiv	50 27	30 30	183	991·4	1013·0	+ 0·6	294·8	300·9	27th	284·9	278·8	7th	289·8	*289·1*	—1·3	75	+ 40
344a	Moscow	55 50	37 33	167	991·1	1010·9	— 1·3	292·7	301·5	21st	282·4	273·5	1st	287·6	*287·8*	—0·8	104	..
345	Saratov	51 33	45 57	122	997·2	1011·4	+ 1·1	299·3	307·4	22nd	287·4	279·9	4th	293·4	*293·1*	+2·2	18	— 31
346	Kazan	55 47	49 8	79·9	1003·2	1012·6	+ 1·4	299·3	308·3	22nd	286·2	278·4	1st	292·8	*292·2*	+1·8	27	— 31
347	Orenburg	51 45	55 6	109	998·7	1011·3	— 0·5	..	306·1	21st	287·4	280·8	1st	..	*294·6*	+2·0	12	— 48
348	Perm	58 1	56 16	163	993·6	1012·7	+ 1·9	297·2	304·0	30th	284·7	272·5	2nd	291·0	*291·4*	+2·9	19	— 39
349	Sverdlovsk	56 50	60 38	281	979·4	1012·0	+ 2·3	297·4	304·1	24th	284·6	273·8	2nd	291·0	*291·3*	+3·5	31	— 56
350	Tobolsk	58 12	68 14	108	1000·8	1013·5	+ 2·7	296·7	302·4	7th	286·2	277·3	3rd	291·4	*290·9*	+2·2	61	— 58
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	300·7	309·0	15th	285·9	276·8	19th	293·3	*293·9*	+3·1	15	— 20
352	Omsk	55 1	73 19	108	1001·0	1013·6	+ 3·8	299·2	308·0	15th	286·5	278·2	3rd	292·8	*292·6*	+2·9	31	— 32
353	Barnaoul	53 20	83 48	162	992·4	1011·3	+ 1·6	299·2	308·8	14th	283·9	273·5	26th	291·6	*292·3*	+2·2	21	— 25
354	Tomsk	56 30	84 58	122	996·8	1011·2	+ 2·1	..	304·6	16th	283·5	274·6	19th	..	*290·6*	+2·6	41	— 8
355	ϕMinousinsk	53 43	91 41	248	982·0	1011·4	+ 2·4	..	304·8	14th	283·3	276·5	19th	..	*291·2*	+0·8	43	— 29
356	Eniseisk	58 27	92 10	77·6	1000·8	1010·2	+ 2·5	..	302·8	28th	280·6	271·4	4th	..	*288·2*	+0·1	31	+ 20
357	Irkutsk	52 16	104 19	467	955·2	1009·2	+ 0·4	294·6	303·8	29th	278·7	272·9	6th	286·7	287·0	—0·5	63	..
358	Kirensk	57 47	108 7	263	975·6	1006·7	— 0·5	..	298·3	28th	278·9	272·8	5th	..	*285·9*	—2·5	74	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	959·4	1003·4	— 0·7	293·2	302·2	21st	278·9	272·8	11th	286·0	*287·2*	—0·1	96	+ 10
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	985·5	1002·1	— 2·7	294·9	301·9	22nd	284·9	279·6	30th	289·9	*289·4*	—1·0	101	+ 15
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	998·8	1009·5	— 1·7	..	..	..	277·5	273·0	3, 5, 6	..	*278·7*	—1·1	40	— 14
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulae employed *see* pages 106 and 107. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," pages 106 and 107. †† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1005·7	1014·1	— 2·7	291·3	303·0	28th	282·8	281·3	18th	287·1	286·6	+0·2	10	— 11
412	Portland, Oregon	45 32	122 41	46·6	1008·8	1014·2	— 3·1	295·1	307·4	28th	284·8	281·9	14th	289·9	*289·6*	+0·6	30	— 11
413	Macleod	49 44	113 24	953	..	..	..	293·3	304·1	12th	282·3	278·0	15th	287·8	*288·0*	0·0	149	+ 84
414	Heléna	46 34	112 4	1253	870·9	1010·5	— 1·9	294·4	305·8	12th	281·5	274·7	14th	287·9	*287·8*	—0·7	82	+ 23
414a	Salt Lake City	40 46	111 54	1329	864·0	1009·5	— 1·5	297·0	306·3	30th	284·8	278·0	1st	290·9	*291·2*	—2·4	35	+ 14
415	Cheyenne	41 8	104 48	1856	812·2	1010·1	— 1·4	294·4	303·0	24th	282·1	278·6	1st	288·2	*287·8*	—1·1	59	+ 21
416	North Platte	41 8	100 45	860	914·9	1012·2	— 0·6	299·4	307·4	24th	287·9	281·9	29th	293·7	*293·1*	+0·3	105	+ 25
416a	Bismarck	46 47	100 38	510	952·8	1012·2	— 0·2	298·5	304·1	1st	285·9	277·4	7th	292·2	*292·6*	+1·2	51	— 34
417	Winnipeg	49 53	97 7	232	983·7	1010·5	— 1·3	300·2	306·9	10th	285·2	278·0	27th	292·7	*293·1*	+2·9	37	— 42
418	Duluth	46 47	92 6	345	973·0	1013·9	+ 0·7	294·8	302·4	24th	283·1	278·0	7th	289·0	*289·3*	+2·3	99	— 7
419	Port Arthur	48 27	89 12	196	990·4	1013·5	— 0·7	295·2	304·7	19th, 24th	284·1	277·4	15th	289·7	*289·4*	+3·0	51	— 19
420	Chicago	41 53	87 37	251	985·2	1014·5	+ 0·1	299·0	308·6	25th	290·2	283·6	29th	294·6	*294·5*	+1·5	43	— 41
421	Toronto	43 40	79 24	116	990·0	1012·6	— 2·1	298·5	308·4	24th	286·5	280·5	13th	292·5	292·2	+1·8	108	+ 40
422	ϕNew York (Central Park)	40 47	73 58	47·4	1006·5	1012·0	+ 1·8	301·7	309·7	20th	290·2	284·7	1st	296·0	295·5	+1·3	76	— 10
423	St. John, N.B.	45 17	66 4	36·2	1004·0	1008·4	— 5·2	290·4	294·8	3rd	281·0	278·8	1, 13, 14	285·7	285·4	—0·9	50	— 33
424	S.W. Point, Anticosti	49 24	63 33	9·1	1005·4	1006·5	— 5·0	284·7	291·6	20th	278·3	274·9	3rd	281·5	*281·7*	—1·0	46	— 27
424a	Sable Island (Main Station)	43 57	60 6	7·6	1009·0	1009·9	— 5·4	284·7	289·1	29th, 30th	279·7	277·4	1st	282·2	*281·9*	—1·2	42	— 51
425	Port aux Basques	47 35	59 10	9·1	1006·4	1007·5	— 6·1	284·3	291·1	15th	277·4	272·2	4th	280·9	*280·7*	—1·0	54	— 52
426	St. John's, Newfoundland	47 34	52 42	48·8	1000·7	1006·6	— 6·2	288·6	298·6	20th	278·6	274·1	24th	283·6	*283·7*	0·0	90	0
430	50°—45° N. 35°—30° W.	††45 40	††32 20	§(6)	..	1013·1	..	..	..	Sea Temp. 289·8	..	..	..	..	290·8	..	..	..
435	Madrid	40 24	3 41	667	942·4	1018·4	+ 3·5	298·2	302·8	25th	284·9	278·1	1st	291·5	*291·0*	—0·8	12	— 30
436	Nantes	47 15	W 1 34	36·5	1017·8	1022·3	+ 4·9	293·2	299·1	30th	282·7	278·0	5th	288·0	288·1	—1·3	1	— 56
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1015·2	1021·6	+ 4·3	291·9	298·9	30th	281·8	277·3	19th	286·9	287·1	—2·4	33	— 22
438	Marseille	43 18	5 23	75	..	1016·1	+ 1·3	296·8	302·6	11th	284·1	280·8	19th	290·5	*290·1*	—2·6	21	— 7
438a	Zürich	47 23	8 33	493	661·6	1019·5	+ 2·9	291·8	300·7	10th	281·0	277·1	18th	286·4	285·6	—3·6	87	— 46
439	Rome	41 54	12 27	45·5	1010·0	1015·2	0·0	299·0	302·2	1st	288·2	283·3	7th	293·6	*293·5*	—1·1	6	— 34
440	Vienna	48 15	16 22	203	991·8	1018·9	+ 1·1	290·7	297·8	11th	283·4	278·5	9th	287·1	287·1	—4·2	69	— 1
440a	Budapest	47 31	19 2	130	999·5	1014·9	+ 0·9	295·2	304·6	1st	284·6	279·5	9th	289·9	289·6	—2·2	42	+ 29
441	ϕSofia	42 42	23 20	550	951·3	1014·3	+ 0·7	296·7	304·5	2nd	285·4	278·8	10th	291·1	*290·3*	—0·9	197	+116
442	Bucharest	44 25	26 6	82	1004·1	1013·7	+ 0·9	299·2	307·8	1st	287·4	282·8	10th	293·3	292·7	—0·8	121	+ 33
443	Odessa (Observatory)	46 26	30 46	42·8	1008·6	1013·6	+ 0·6	296·3	303·1	2nd, 5th	287·4	283·0	7th, 22nd	291·8	*291·6*	—1·2	40	— 16
444	Kharkiv (University)	50 0	36 14	140	996·3	1012·6	+ 0·6	297·7	304·2	28th	285·4	279·7	8th	291·6	291·3	+0·5	45	— 19
444a	Novorossiisk	44 44	37 49	37·1	1008·8	1013·1	+ 0·5	299·1	302·2	28th	290·6	286·9	15th	294·8	*294·8*	+1·8	10	— 52
445	ϕTiflis	41 43	44 48	404	965·9	1011·4	— 0·4	302·2	307·7	6th	290·9	287·7	4th	296·5	296·1	+2·2	94	+ 21
446	Astrakhan	46 21	48 2	— 20	1013·2	1010·9	— 0·9	302·4	306·4	23rd	293·3	287·5	12th	297·8	*297·8*	+2·3	18	0
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1013·2	1010·5	— 0·5	300·5	306·1	27th	292·7	288·5	14th	296·6	*296·5*	+0·6	28	+ 16
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1010·6	1010·1	0·0	303·9	309·4	26th	294·8	292·5	13th	299·4	*298·7*	+0·5	7	— 3
449	Kasalinsk	45 46	62 7	66·7	1000·6	1008·2	— 1·1	..	..	..	291·4	287·2	2nd	..	*299·6*	+3·4	0	— 6
450	Tashkent	41 20	69 18	478	952·2	1005·3	— 1·8	306·9	311·1	15th	291·9	285·9	1st	299·4	*298·4*	+0·7	13	+ 1
451	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	913·8	1006·5	— 2·1	299·4	305·5	16th	288·0	280·2	20th	293·7	*293·4*	+0·6	40	— 20
461	ϕMoukden	41 48	123 23	43·8	998·7	1003·8	— 0·4	300·3	304·5	22, 24, 25	288·1	280·9	1st	294·2	293·8	—0·6	189	+103
462	Joshin	40 40	129 11	31·9	1003·6	1007·4	+ 0·9	291·1	297·7	3rd	284·2	279·9	1st	287·7	287·0	—1·7	28	— 30
463	Yuki	42 20	130 24	65·6	999·4	1007·2	0·0	290·2	299·7	3rd	283·7	279·8	5th	286·9	286·4	—1·1	85	+ 8
464	Vladivostok	43 7	131 53	128	992·6	1008·0	— 0·3	287·9	296·6	30th	282·7	278·4	5th	285·3	*284·9*	—2·0	57	— 13
465	Ochiai	47 20	142 47	27·4	1006·1	1009·4	+ 0·7	290·2	299·3	22nd	278·1	271·0	8th	284·1	284·2	+0·7	20	— 64
466	Nemuro	43 20	145 35	26·7	1007·7	1011·0	+ 0·9	284·4	292·5	19th	278·1	274·2	4th	281·3	281·2	—1·7	103	+ 10
466a	ϕSyana	45 14	147 53	39·3	1006·4	1011·2	+ 0·9	285·0	293·8	18th	276·8	269·4	9th	280·9	281·0	—1·2	31	— 28
		N.	E.															

Between Latitude 40° N. and 30° N. — JUNE—ZONE 5 (Western Half).

508	35°—30°N. 145°—140°W.	††31 3	††142 0	§(15)	..	1022·3	— 1·7	..	..	Sea Temp. 292·4	..	..	..	..	291·9	+0·6	..	..
511	San Francisco	37 48	122 26	47·2	1008·4	1014·2	— 0·5	290·3	293·6	24th	283·7	282·4	3rd	287·0	*286·3*	0·0	2	— 2
512	San Luis Obispo	35 18	120 39	61·3	1007·0	1014·5	— 0·2	294·0	301·3	9th	282·3	277·4	1st	288·1	*286·7*	—1·1	1	— 1
513	San Diego	32 43	117 10	26·5	1009·2	1012·2	— 0·6	292·4	295·8	29th	287·2	284·7	1st	289·8	*289·4*	—0·7	1	— 1
514	Modena	37 48	113 54	1670	830·2	1008·1	— 2·1	297·6	309·1	30th	278·5	267·4	1st	288·1	*288·3*	—2·1	6	— 3
515	Santa Fé	35 41	105 57	2138	786·9	1006·4	— 1·6	298·6	304·1	30th	284·3	278·6	1st	291·4	*292·0*	—0·3	6	— 24
516	Denver	39 45	105 0	1613	835·8	1010·1	— 1·3	298·0	307·4	24th	285·2	281·9	11th	291·6	*291·0*	—1·0	90	+ 56
517	Abilene	32 23	99 40	530	951·3	1010·8	— 1·0	305·1	310·8	27th	293·6	288·6	9th	299·3	*299·1*	+0·2	97	+ 28
518	Saint Louis	38 38	90 12	173	993·7	1013·9	— 0·5	301·4	308·0	23rd	292·6	285·8	29th	297·0	*296·7*	+0·1	110	— 6
519	Mobile	30 41	88 2	17·4	1013·5	1015·6	+ 0·1	303·0	306·9	21st	294·7	290·2	30th	298·9	*298·2*	—0·3	152	+ 16
520	Nashville	36 10	86 47	166	996·6	1015·9	+ 0·4	302·0	306·3	21st	291·7	284·7	30th	296·8	*296·9*	—0·6	112	+ 5
521	Charleston	32 47	79 56	14·6	1014·5	1016·2	— 0·1	302·3	306·9	28th	295·4	291·3	2nd	298·9	*299·0*	+0·3	91	— 31
522	Washington	38 54	77 3	34·1	1009·3	1013·2	— 2·2	303·1	309·7	21st	291·3	286·9	30th	297·2	*296·8*	+1·8	71	— 34
523	Bermuda	32 17	64 46	46·0	1014·0	1019·4	+ 0·4	299·3	301·8	30th	293·6	288·4	1st	296·4	*296·2*	—1·2	41	— 68
524	Santa Cruz (Flores)	39 27	31 9	40	1020·2	1025·2	— 0·6	294·4	297·5	28th	290·1	288·4	16th	292·2	*292·3*	—0·2	85	+ 13
531	ϕHorta	38 32	28 38	65	1017·6	1025·4	+ 1·4	294·3	297·2	10th	290·0	286·0	5th	292·1	291·6	—0·5	110	+ 41
532	Ponta Delgada	37 44	25 40	22	1022·5	1025·1	+ 1·6	293·5	296·3	10th	289·4	287·0	5th	291·4	291·2	—0·5	..	..
532a	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	13	— 41
533	Madeira (Funchal)	32 38	16 55	25	‡1019·6	‡1022·5	+ 1·7	295·2	301·1	11th	290·5	288·1	5, 6, 9	292·9	*293·0*	+0·5	6	— 3
534	Lisbon	38 43	9 9	95	1006·7	1017·8	+ 0·2	299·1	306·4	15th	289·3	283·4	3rd	294·2	293·9	+1·6	8	— 10
535	Melilla	35 17	2 59	40	..	..	..	300·8	303·6	26th, 30th	291·1	289·6	1st	296·0	*297·0*	+0·1	0	— 7
535a	Gibraltar	36 6	5 21	16·2	..	1018·6	+ 1·0	295·7	299·7	15th, 26th	288·7	285·2	4th	292·2	*291·8*	—2·2	33	+ 21
536a	Colomb-Béchar	31 36	2 4	769	926·7	1010·5	..	305·6	310·0	18th	292·5	286·0	9th	299·1	*298·9*	..	3	..
		N. ° ′	W. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108. †† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

JUNE—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1016·1	1018·8	+ 1·4	296·2	301·4	11th	286·0	282·0	20th	291·1	..	−3·9	13	− 5
538	Algiers (Bouzaréah)	36 47	3 2	344	978·1	1018·3	+ 2·4	292·0	295·7	26th	286·9	284·0	8th	289·4	*289·6*	−3·3	63	+ 44
539	ϕTunis	36 48	10 10	21	1013·4	1015·9	..	298·3	305·0	26th	288·1	284·2	21st	293·2	*292·5*	−2·7	7	− 4
539*a*	Malta	35 53	14 30	56·4	..	1015·0	+ 0·5	297·0	305·8	3rd	291·2	289·1	21st	294·1	*293·2*	−1·5	1	+ 7
540	Riposto	37 41	15 14	14·2	..	1017·5	+ 0·8	296·8	299·6	2nd	291·0	288·6	10th	293·9	*293·2*	−1·5	14	+ 25
541	Athens	37 58	23 43	107	1000·8	1013·1	+ 0·4	300·5	310·1	4th	291·8	287·0	10th	296·2	296·7	−0·2	40	0
542	ϕAlexandria	31 12	29 53	32·0	1010·3	1014·0	+ 1·3	303·5	316·1	24th	294·5	292·3	13th	299·0	*298·3*	+1·5	0	..
543	Nicosia (P.W.D.)	35 0	33 22	159	992·4	1010·3	+ 1·3	306·7	314·1	21st	291·6	288·0	17th, 18th	299·1	..	+1·0	0	− 10
544	Beirut	33 54	35 28	33·7	..	1011·8	+ 0·9	302·2	306·9	7th	295·0	292·6	18th	298·6	*298·5*	+1·2	0	− 4
545	Hinaidi	33 17	44 29	32·3	..	1004·4	0·0	313·7	319·0	27th, 28th	297·1	294·2	7th	305·4	*306·3*	..	0	..
546	Lenkoran	38 46	48 52	−20·0	1013·4	1011·1	+ 0·2	..	304·8	24th	292·3	289·8	23rd	..	*297·3*	+1·1	25	+ 5
547	Tehran	35 41	51 25	1220	..	..	..	302·6	306·6	19th	290·8	287·5	7th	296·7	*296·3*	−3·1	7	+ 34
548	Meshed	36 16	59 35	946	875·4	..	..	302·8	307·4	17th	288·4	282·4	2nd	295·6	..	−0·6	43	0
549	Seistan	31 0	61 30	610	..	..	..	309·5	313·7	18th	297·4	293·3	9th	303·4	..	..	0	0
550	Quetta	30 11	67 3	1677	827·5	..	− 0·4	305·1	307·8	20th, 23rd	287·7	283·0	2nd	296·4	*296·0*	−0·4	0	− 4
551	Peshawar	34 2	71 37	339	960·6	997·2	− 1·2	315·6	319·3	11th	298·5	293·4	3rd	307·1	*306·9*	+1·0	0	− 2
551*a*	Lahore	31 34	74 20	214	972·6	995·8	− 2·1	315·4	319·4	10th	301·6	298·1	4th	308·5	*308·3*	+1·4	0	− 43
552	Simla	31 7	77 8	2204	777·5	..	− 0·3	297·2	300·5	10th	289·8	284·9	13th	293·5	*293·1*	+0·6	130	− 51
552*a*	Leh	34 10	77 42	3503	664·8	..	− 0·7	294·4	299·0	26th	281·2	276·6	4th	287·8	*287·2*	+0·3	1	− 3
559	Hankow	30 35	114 17	37·0	1001·3	1005·5	+ 0·2	303·4	308·0	19th	294·6	290·8	8th	299·0	*298·6*	−0·1	110	− 117
560	ϕTientsin	39 10	117 10	5·0	1003·3	1003·8	− 0·7	304·9	310·5	16th	291·8	286·4	11th	298·3	*297·8*	+0·6	85	+ 20
561	ϕShanghai (Zi-ka-Wei)	31 12	121 26	7	..	1006·2	− 0·1	301·9	308·6	19th	292·2	286·0	1st	297·0	296·1	+0·1	166	− 22
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1000·0	1008·0	+ 1·1	297·2	303·1	22nd	288·9	284·7	1st	293·0	292·4	+0·1	91	− 15
562*a*	Nagasaki	32 44	129 52	133	992·7	1008·0	− 0·4	298·5	302·4	14th	290·9	285·8	3rd	294·7	294·5	0·0	419	+ 65
563	Kyoto	35 1	135 44	42·9	1003·4	1008·4	− 0·2	299·3	305·0	26th	289·1	281·1	3rd	294·2	293·7	−0·4	522	+ 287
564	Tokyo	35 41	139 46	5·8	1008·0	1008·7	− 0·5	297·0	301·5	23rd	289·8	285·8	11th	293·4	293·4	−0·1	281	+ 110
565	Kanayama	37 53	140 46	24·6	1006·0	1008·9	− 0·3	295·8	302·8	20th	286·3	278·1	3rd	291·1	290·5	−0·7	276	+ 120
566	Miyako	39 38 N.	141 59 E.	30·4	1005·4	1009·0	− 0·3	291·8	298·6	29th	284·3	280·0	2nd	288·1	287·4	−1·6	270	+ 144

JUNE—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		N.	W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1016·6	− 1·4	302·1	304·1	9th	293·3	289·7	11th	297·7	*297·1*	..	73	..
605	Honolulu	21 19	157 52	11·6	1016·2	1017·5	+ 0·3	300·1	301·3	..	295·3	294·1	..	297·7	*297·6*	−0·1	4	− 24
614	La Paz	24 10	110 20	12	1007·3	1008·7	..	304·4	306·4	30th	292·9	290·6	19th	298·7	..	..	1	+ ..
615	Chihuahua	28 38	106 4	1423	856·4	1003·5	..	305·5	307·5	6, 27, 28	292·4	289·0	6th	298·9	*300·2*	+0·8	54	+ 0
616	ϕLeon	21 7	101 41	1809	821·7	1007·9	+ 0·7	302·8	307·1	5th	287·6	285·8	28th	295·2	*295·2*	−0·2	109	− 41
616*a*	ϕMonterry	25 40	100 18	528	950·6	1008·9	− 0·7	305·5	308·3	1st	294·8	293·0	30th	300·1	*299·3*	−0·6	18	+ 137
617	Tulancingo	20 5	98 22	2181	789·1	..	..	296·8	301·2	5th	284·7	281·6	4th	290·7	*289·4*	−1·2	207	− 2
618	Galveston	29 18	94 50	16·5	1012·2	1014·2	− 0·3	302·8	304·1	27th	298·0	293·0	29th	300·4	*300·3*	+0·3	82	− 2
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1014·9	− 0·3	303·5	305·2	26th	295·7	292·4	30th	299·6	*299·4*	−0·2	137	..
619	Merida, Yuc.	20 58	89 38	22	1009·7	1012·2	− 1·0	305·3	309·0	1st	296·1	293·8	5th	300·7	*300·0*	+0·2	159	+ 3
620	Havana	23 8	82 21	24·3	..	1010·2	+ 0·8	304·2	306·9	26th, 28th	296·6	294·9	5th	300·4	*299·7*	+0·2	170	+ 30
620*a*	Key West	24 33	81 48	6·7	1015·3	1015·9	+ 0·5	303·4	305·2	27th	297·7	294·7	3rd	300·6	*300·4*	−0·1	80	..
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1010·4	− 0·4	302·2	..	..	296·7	..	..	299·4	*299·4*	−0·9	163	..
622	Watling Island	24 0	74 26	33·5	1014·3	1018·2	+ 1·4	..	302	12th	..	297	17th, 27th	..	*298·8*	..	..	..
633	Izaña	28 19	16 30	2367	770·4	..	..	288·4	292·3	10th	280·9	272·8	6th	284·6	*283·9*	−1·4	12	+ ..
634	La Laguna	28 28	W16 20	547	955·7	1018·8	+ 1·3	294·4	302·3	16th	285·5	282·9	8th	289·9	*289·3*	−1·4	19	+ 14
641	Siwa	29 12	E 25 29	−23	1016·2	1013·5	..	311·9	317·0	22nd, 24th	292·0	289·0	13th	302·0	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	999·0	1012·0	+ 1·3	309·2	315·4	7th	293·6	290·3	13th	301·4	*301·5*	+1·6	0	..
643*a*	Aswan	24 2	32 53	99·6	996·7	1007·6	+ 0·1	317·1	320·6	26th	299·3	295·0	19th	308·2	*307·8*	+2·7	..	..
644	Tor	28 14	33 37	1·9	1008·6	1008·8	+ 1·8	307·3	314·1	7th	296·3	292·7	17th	301·8	*300·8*	+1·2	0	..
647	Bushire	28 59	50 53	4·3	1001·5	1002·1	+ 1·3	306·9	315·3	28th	300·6	295·2	28th	303·7	*303·0*	+0·6	0	0
648	Jask	25 44	57 47	4·0	1001·0	1001·5	+ 1·6	310·1	314·9	28th	301·4	296·2	24th	305·7	*305·0*	+0·6	0	..
649	Karachi	24 53	66 57	4·0	1000·3	1000·8	+ 0·5	304·0	307·8	2nd	299·4	297·8	28th	301·7	*301·0*	−1·6	0	− 22
650	Jacobabad	28 17	68 29	56·7	990·5	996·7	− 0·5	316·3	322·5	25th	302·4	298·3	2nd	309·3	*308·8*	−1·0	0	− 5
651	Jaipur	26 56	75 52	436	952·1	998·8	− 0·5	314·7	318·4	3rd	301·5	299·5	22nd	308·1	*307·4*	+1·8	6	+ 101
652	Nagpur	21 8	79 5	310	967·0	1000·3	− 0·5	314·8	319·7	3rd	302·4	298·0	26th	308·6	*307·6*	+3·9	30	− 137
653	Allahabad	25 25	81 51	94·2	987·5	997·2	− 1·4	316·3	319·6	10th	303·4	299·6	20th	309·9	*309·2*	+3·2	0	− 240
653*a*	Darjeeling	27 3	88 18	2265	771·2	..	− 1·6	292·0	294·5	4th, 13th	287·4	284·9	2nd	290·0	*289·6*	+0·9	368	− 100
654	Calcutta	22 36	88 23	6·4	997·8	998·6	− 2·1	308·3	315·2	13th	299·9	296·6	22nd	304·1	*303·8*	+1·6	136	..
655	Gauhati	26 8	91 41	59·7	994·5	1001·2	− 1·7	304·2	307·9	5th	297·5	295·2	12, 13, 14	300·8	*300·1*	−0·5	503	+ 151
655*m*	Cherrapunji	25 15	91 42	1313	862·0	..	− 1·5	295·1	299·6	5th	291·6	287·8	12th	293·3	*292·8*	+0·2	3224	+ 748
655*a*	Akyab	20 11	92 56	6·1	1001·3	1002·0	− 2·2	303·9	306·1	3rd	298·1	295·8	10th	301·0	*301·1*	+0·3	1102	+ 90
656	Mandalay	21 59	96 0	76·2	994·1	1002·6	− 2·2	308·8	313·8	3rd	298·9	295·1	12th	303·8	*303·0*	+0·4	262	+ 162
656*a*	Tengyueh	25 2	98 33	1626	830·7	1000·3	+ 0·8	296·4	299·7	1st	289·5	286·9	1st	292·9	*292·3*	0·0	328	+ 55
657	ϕPhu Lien	20 48	106 38	116	989·5	1002·8	− 0·5	303·1	307·0	23rd, 29th	297·4	293·8	4th	300·3	*299·9*	−1·1	594	+ 349
658	ϕMoncay	21 31	107 51	9·0	1001·9	1002·9	− 0·8	303·6	306·7	10th	297·4	293·9	4th	300·5	*299·9*	−0·6	726	+ 245
659	ϕHongkong	22 18	114 10	33·2	..	1004·8	− 1·2	302·2	305·7	23rd	298·3	294·8	4th	300·3	300·0	−0·2	399	− 35
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1005·4	1006·4	− 0·4	303·8	307·6	30th	295·5	290·9	4th	299·6	299·1	−0·6	350	+ 72
661*a*	Basco	20 28	121 59	18·7	..	1005·1	− 2·0	303·4	305·3	26th	297·4	‡294·6	17th	300·4	*300·8*	−0·6	266	+ 132
662	ϕNaha	26 13	127 41	10·5	1007·0	1008·2	− 0·4	302·4	305·0	18th	296·3	290·2	4th	299·3	299·1	−0·2	215	− 48
665	Titizima (Bonin Islands)	27 5 N.	142 11 E.	4·0	1012·9	1013·3	+ 0·6	302·7	304·5	20th	297·4	294·1	1st	300·1	299·8	+1·2	142	+ 31
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

JUNE—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 11	103 45	‡498	953·9	1009·1	..	305·4	310·8	5th	294·4	292·3	6th	299·9	*298·7*	+0·1	347	..
716	Morelia	19 42	101 7	1923	809·2	1007·5	..	296·9	302·0	15th	288·9	285·9	3rd	292·9	*292·2*	+0·4	159	..
717	Mexico, Tacubaya	19 24	99 12	2309	773·9	..	− 0·7	297·9	302·8	5th	284·1	281·0	7th	291·0	290·0	+0·4	117	+ 10
718	ϕSalina Cruz	16 12	95 12	56	1004·0	1010·4	− 1·3	301·8	308·5	6th	296·8	294·8	11th	299·3	*299·8*	−0·8	469	+204
719	ϕSan Salvador	13 42	89 12	682	936·6	1012·3	+ 0·4	302·8	305·4	8th	291·5	290·0	8, 10, 29	297·1	*295·5*	−0·9	363	+ 33
720	Belize	17 29	88 12	5·2	1009·9	1010·5	− 1·2	303·4	305·2	1st, 2nd	297·5	293·8	23rd	300·5	*300·1*	−0·3	179	− 16
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·2	+ 0·7	303·6	305·5	30th	294·9	293·4	22nd	299·3	*299·4*	−0·3	77	− 62
721	Port au Prince	18 33	72 20	37·4	1011·2	1015·5	+ 0·6	308·1	309·4	28th	296·5	294·0	8th	302·3	*301·5*	+1·1	21	− 83
722	Caracas	10 30	66 56	1042	900·6	1014·8	+ 1·0	298·3	301·3	16th	289·4	288·4	..	293·8	*293·0*	−0·4	45	− 58
724	Montserrat	16 41	62 9	36·6	1012·5	1016·7	+ 1·2	303·4	306·3	4th	296·2	291·9	8th	299·8	*299·3*	−0·8	145	+ 36
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡996·5	‡1014·4	+ 0·9	302·1	304·1	20th, 22nd	296·7	295·2	3rd, 30th	299·4	*298·9*	+0·3	93	−112
725	Barbados	13 8	59 36	55·2	..	1015·2	+ 0·8	302·4	303·9	25th	..	..	..	..	*299·4*	−0·2	49	− 61
731	São Vicente, C. Verde Is.	16 54	25 4	11	1014·6	1015·8	+ 0·6	297·7	299·0	22nd, 27th	291·9	291·3	6th	294·8	*295·8*	−0·7	0	0
732	San Tiago, C. Verde Is.	14 54	23 31	34	1011·0	1014·9	− 0·5	300·4	303·2	14th	294·9	294·2	sev. dates	297·6	*297·6*	−0·3	0	0
733	Bathurst	13 27	16 34	1·8	1013·5	1013·7	+ 0·3	303·7	305·2	11th, 28th	295·1	293·6	4th	299·4	*299·3*	−0·2	96	+ 21
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	310·2	314·7	4th	296·0	295·8	23rd, 24th	303·1	..	−0·2	88	− 28
736	Niénébalé	12 57	7 26	300	..	..	..	308·9	312·6	5th	295·6	291·2	7th	302·3	..	..	102	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	315·2	318·0	4th	298·8	292·5	29th	307·0	*306·5*	−0·6	34	+ 7
737	ϕSokoto	13 2	E 5 14	353	..	..	..	309·8	314·1	11th	296·4	292·4	27th	303·1	*302·6*	0·0	72	− 31
739	Kaduna Capital	10 32	7 25	637	944·5	1015·1	+ 0·8	303·4	305·2	10, 18, 20	292·9	289·7	11th, 16th	298·2	*297·6*	+0·5	183	− 13
740	Hadeija	12 40	10 5	?	..	..	..	309·9	313·6	1st, 11th	296·0	293·0	4th, 30th	302·9	*302·3*	−0·8	54	+ 3
741	ϕMaiduguri	11 47	13 11	361	..	..	..	310·9	315·8	1st	297·2	293·0	30th	304·1	*303·5*	0·0	98	+ 44
741	El Fasher	13 32	25 18	730	..	..	..	310·6	311·9	sev. dates	295·0	293·1	2nd	302·8	*302·0*	..	15	..
743	El Obeid	13 11	30 14	569	946·7	1009·0	+ 0·9	310·1	313·1	13th, 15th	296·4	290·5	17th	303·2	*302·6*	+0·3	47	+ 17
743*a*	ϕKhartoum	15 37	32 33	390	964·2	1006·4	− 0·2	314·0	316·9	15th	298·7	296·0	3rd	306·3	*306·5*	−0·6	26	+ 18
744	Port Sudan	19 37	37 13	5·5	1005·2	1005·9	+ 0·2	313·0	318·0	27th	299·4	295·9	22nd	306·2	*305·2*	+0·9	0	0
745	Berbera, Somaliland	10 22	45 2	9·5	1004·5	1005·5	+ 0·6	315·9	319·7	14th	302·6	300·2	1, 4, 5	309·3	*308·7*	+0·5	0	0
746	Aden	12 45	45 3	28·7	1003·8	1007·1	+ 1·9	307·8	308·7	12th	302·3	300·8	22nd	305·1	*304·8*	+0·2	0	− 2
751	Bombay	18 54	72 49	11·3	1004·7	1006·0	+ 0·9	305·6	307·6	12th	300·6	297·6	14th	303·1	302·3	+1·2	183	−282
752	Kodaikanal	10 14	77 28	2343	769·0	..	− 0·2	293·1	296·4	10th	285·2	283·8	25th	289·1	*288·2*	+1·0	52	− 51
753	Bangalore	12 59	77 38	921	907·3	1007·0	+ 0·1	303·7	306·1	2nd	292·6	291·3	29th	298·2	*297·1*	+0·8	50	− 23
754	Madras	13 4	80 14	6·7	1003·8	1004·6	− 0·9	312·2	316·6	10th	300·9	297·8	13th	306·6	*306·2*	+1·6	50	+ 2
754	Vizagapatam	17 42	83 19	11·6	999·3	1000·6	− 1·6	308·8	317·4	9th	301·3	297·8	30th	305·1	*304·4*	+1·7	11	−113
755	Port Blair	11 40	92 40	18·0	1004·0	1006·0	− 1·3	302·5	304·8	2nd	298·1	295·4	22nd	300·3	*299·6*	−0·4	808	+317
756	Rangoon	16 46	95 48	5·5	1004·4	1005·1	− 1·8	303·4	306·9	17th	297·8	295·8	11th	300·6	*299·5*	+0·2	695	+237
757	Saigon (Cap St. Jacques)	10 20	107 5	180	986·0	1007·0	+ 0·1	302·9	305·0	8th	296·3	294·4	17th	299·7	*299·2*	−0·6	100	− 84
759	Nhatrang	12 15	109 12	3·6	1004·4	1004·8	− 1·1	305·9	308·4	29th	297·7	296·4	29th	301·8	*301·3*	+0·1	31	− 17
759	Bolinao	16 23	119 53	7·1	..	1004·5	− 2·0	303·4	308·0	1st	295·5	293·3	12th	299·5	*299·5*	−1·3	973	+592
761	Vigan	17 34	120 23	12·2	..	1005·4	− 2·1	304·5	308·3	4th	297·2	295·6	5th	300·9	300·4	−0·6	549	+253
761*a*	Manila	14 35	120 59	14·2	..	1007·0	− 0·8	303·6	307·0	3rd	296·7	295·0	30th	300·1	*299·3*	−1·5	472	+237
762	ϕOrmoc	11 0	124 36	5·6	..	1007·2	− 0·7	304·9	306·3	12th	296·8	295·2	2nd	300·9	*300·6*	+0·9	278	+ 69
765	Guam, Ladrone Is.	13 24 N.	144 38 E.	18·6	..	1009·2	+ 0·2	303·6	305·8	11th	298·2	296·7	16th	300·9	*300·8*	−0·4	138	0

Between Latitude 10° N. and 0°

JUNE—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		N.	W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
821	Fanning Island	3 54	159 23	5·3	1010·5	1011·1	..	304·6	306·6	2nd	297·9	295·3	16th, 17th	301·3	*300·8*	+0·5	272	+ 1
822	Colon	9 23	79 23	11·0	..	1010·2	− 0·4	303·6	305·8	5th	297·5	295·8	27th	300·6	*300·2*	+0·9	385	+ 47
822*a*	Bogota	4 36	74 5	2645	‡744·8	..	..	291·6	294·0	15th	283·4	281·5	20th	287·5	*287·1*	..	29	− 31
823	Merida, Venez.	8 36	71 9	1641	‡841·1	..	− 0·6	297·6	300·5	1st	288·9	286·5	27th	293·2	*292·1*	+0·4	207	+ 12
823	Ciudad Bolivar	8 9	63 33	38	1008·1	1012·4	..	303·6	306·4	1st	296·3	294·4	30th	299·9	*299·4*	..	141	+ 6
824	ϕEl Peru, Guayanavieja	7 19	61 49	220	987·0	1012·1	+ 0·9	301·9	303·6	1st	292·8	289·8	27th	297·4	*296·8*	−1·0	161	− 24
825	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1014·9	+ 1·6	301·9	303·0	14th, 17th	296·8	295·8	1, 27, 29	299·3	*299·3*	−0·5	293	− 4
826	Paramaribo	5 49	55 9	3·7	‡1014·2	‡1014·6	+ 0·8	302·4	304·9	17th	295·6	294·2	26th	299·0	*298·3*	+0·4	491	+192
826*a*	Cayenne	4 56	52 21	6	..	..	..	303·8	306·0	29th	296·6	295·0	4th	300·2	*299·5*	+1·5	738	+344
831	10°—5° N. 30°—25° W	††7 36	††27 54	§(89—94)	..	1015·0	+ 1·4	..	..	Sea Temp.	298·8	−0·7	..	..	298·3	−0·8	..	..
832	Konakri	9 31	13 43	16	..	..	..	303·7	304·8	18th	296·3	293·7	3rd	300·0	*299·5*	+0·2	113	−400
833	Freetown, Sierra Leone	8 29	13 9	68·3	1005·5	1013·4	+ 1·4	303·4	304·7	sev. dates	296·1	293·6	30th	299·7	*298·8*	−0·1	337	−172
834	Assuantsi	5 18	1 15	101	..	..	..	300·8	303·6	2nd, 12th	294·8	293·6	2, 7, 18	297·8	*297·4*	..	221	− 7
835	ϕAccra	5 33	W 0 12	27·0	1009·7	1012·8	..	302·6	304·7	5th	295·9	293·0	28th	299·3	*298·8*	+1·0	137	− 40
838	ϕLagos	6 27	E 3 24	4·6	1012·0	1012·6	+ 0·2	302·6	304·4	2nd	296·6	294·1	26th, 29th	299·6	*298·6*	+0·2	637	+168
839	Zungeru	9 48	6 10	130	..	..	..	306·1	308·6	5th, 11th	294·9	293·0	8th, 16th	300·5	*299·9*	+0·5	141	− 22
840	ϕYola	9 12	12 30	259	..	..	..	305·1	308·6	3, 11, 27	..	..	..	..	‡*299·1*	−0·4	115	− 32
841	Wau	7 42	28 3	440	..	..	..	306·4	309·0	sev. dates	294·4	292·0	20th	300·4	*299·6*	+0·2	176	+ 7
843	Malakal (Kodok)	9 35	31 37	394	..	..	..	..	..	..	..	..	..	..	..	..	..	..
843*a*	Mongalla	5 11	31 47	439	961·0	1009·6	+ 0·3	306·2	308·5	13th	..	..	..	..	..	..	109	− 8
844	ϕEntebbe	0 5	32 29	1171	886·1	1012·1	+ 1·3	298·4	300·8	11th	289·5	288·6	sev. dates	293·9	*295·0*	+1·4	101	− 30
844*a*	Minicoy	8 17	72 49	2·1	1008·5	1008·7	− 1·1	..	..	..	..	..	..	..	..	..	400	+ 98
852	Cochin	9 58	76 21	2·7	1009·3	1009·7	+ 0·2	302·2	306·1	2nd	297·1	294·4	24th	299·6	*298·9*	−0·1	845	+121
853	Colombo Observatory	6 54	79

JUNE—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1009·5	1010·4	+ 0·5	..	..	..	297·3	296·3	18th	..	..	..	30	−19
924	ϕManaos	3 8	60 1	43·8	..	..	..	303·3	305·6	11th	296·2	294·4	24th	299·8	..	..	88	+5
926	Taperinha	2 30	54 20	20·0	1010·2	1012·6	+ 0·3	302·8	304·2	16th	295·1	293·7	29th	299·0	297·9	+0·4	218	+47
927	ϕTuryassu	1 43	45 26	9·1	1010·8	1011·8	− 0·4	304·2	306·0	11th	294·8	293·7	1st	299·5	298·6	+0·2	256	+12
928	ϕBarra do Corda	5 30	45 16	81·0	1001·8	1011·3	− 0·3	303·9	305·2	18th	293·0	290·2	27th	298·4	297·8	+0·3	18	0
929	Quixeramobim	5 16	39 15	207	991·8	1015·3	+ 1·5	303·4	305·3	29th	294·1	292·4	21st	298·8	298·8	−0·7	78	+39
930	ϕFernando Noronha	3 50	32 25	106	1001·6	1013·6	+ 0·1	300·1	301·4	2nd	296·7	294·7	30th	298·4	298·4	+0·1	135	−30
934	Ascension Island	7 56	W14 25	16·8	1013·8	1015·6	− 0·2	302·4	304·1	3rd	295·9	293·6	26th	299·2	298·5	+0·1	8	−7
939	Loanda	8 49	E 13 13	**51	..	1015·6	+ 0·9	296·6	300·0	2nd	291·6	289·0	20th	294·1	293·5	−0·8	0	0
940	Brazzaville	4 17	15 16	321	978·8	1015·4	+ 1·1	301·3	309·0	11th	291·0	288·0	22nd	296·2	295·5	−0·3	0	−10
943	Masaka	0 21	31 47	‡1280	..	..	..	304·8	305·2	sev. dates	..	..	..	..	293·1	+0·8	17	−20
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	295·2	298·0	5th	285·2	280·8	11th	290·2	..	..	55	+19
944*a*	Zanzibar	6 10	39 11	21·9	1016·1	1018·7	+ 0·5	301·0	301·8	2nd, 6th	296·7	295·8	4th	298·9	298·4	+0·4	34	+6
945	ϕLamu	2 16	40 50	3·0	..	..	..	301·7	303·0	1st, 2nd	297·7	295·2	29th	299·7	299·3	−0·4	225	0
947	Seychelles, Port Office	4 37	55 27	4·6	1012·6	1013·2	+ 1·1	300·6	302·1	6th	298·2	295·9	7th	299·4	298·8	+0·4	114	−101
957	ϕPadang	0 56	100 22	6·7	1008·6	1009·4	− 0·7	..	..	..	..	..	..	..	..	..	163	−41
958	Batavia	6 11	106 50	8·0	1008·6	1009·5	− 0·3	303·5	305·4	1st	296·7	294·9	8th	300·1	299·7	+0·5	54	+6
958*a*	Pontianak	0 1	109 20	2·6	1009·6	1009·8	+ 0·4	..	..	..	..	..	..	..	..	..	228	−53
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	26	+15
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	83	−359
962	Amboina	3 42	128 10	4·2	1009·8	1010·3	+ 0·2	..	..	..	..	..	..	..	..	..	266	−121
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	82	−80
965	Daru	9 4	143 13	7·6	..	..	..	..	..	..	..	..	..	..	..	..	12	+11
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	301·1	..	..	295·1	..	..	298·1	297·7	−1·1	36	+103
967	Rabaul	4 9	152 12	20·7	..	1009·2	..	304·3	306·4	7th	295·9	294·7	25th, 26th	300·1	299·6	0·0	198	−45
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1010·0	1010·2	+ 0·1	303·1	304·4	8th, 9th	298·2	296·8	28th	300·7	300·5	+0·5	110	+80
970	Ocean Island	0 52 S.	169 35 E.	54·0	1002·0	1008·1	+ 0·4	304·3	305·2	1, 9, 15	297·6	294·7	18th	300·9	300·2	0·0	219	+80

JUNE—ZONE 10.

Between Latitude 10° S. and 20° S.

1002	Apia, Samoa	13 48 S.	171 46 W.	2	..	1011·5	− 0·1	302·5	304·5	9th	295·1	292·4	26th	298·8	298·5	0·0	168	+56
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	300·4	304·1	29th	292·3	287·4	25th, 26th	296·3	296·1	0·0	104	+18
1021	ϕArequipa	16 22	71 33	2452	762·3	..	+ 1·0	292·9	294·4	28th	282·5	279·6	24th	287·7	287·4	+0·8	0	0
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	282·7	281·1	23rd	..	286·7	..	0	0
1023																		−2
1024	Sucre, Bolivia	19 3	65 16	2850	728·7	..	..	290·5	293·8	17th, 18th	277·1	273·0	29th	283·8	283·8	..	0	0
1025	ϕCorumba	18 59	57 39	116	999·9	1013·2	− 0·4	299·1	304·4	18th	291·1	283·0	29th	295·1	295·0	+0·6	29	−20
1026	ϕCuyaba	15 36	56 6	165	994·5	1013·3	− 0·1	303·3	307·2	11th	290·6	285·0	29th	297·0	295·7	−0·1	27	−48
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	−27
1028	Caetite	14 3	42 37	897	917·6	1017·1	− 0·3	299·7	303·4	sev. dates	287·6	284·1	26th	293·6	293·6	+0·6	7	−25
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1010·8	1016·3	− 0·1	300·0	302·4	21st	294·9	293·0	5th	297·4	297·2	+0·3	107	−64
1030	ϕAracaju	10 55	37 3	6·1	1016·0	1016·8	+ 0·2	300·4	301·3	3rd	294·3	290·7	28th	297·4	297·4	−0·9	77	+64
1035	St. Helena	15 57	W 5 40	‡604	945·3	1014·3	− 1·6	292·5	295·0	3rd, 28th	285·2	284·1	11th	288·8	289·5	−0·3	167	−20
1039	Mossamedes	15 12	E12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	0	−10
1041	Livingstone	17·51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	0	−19
1041*a*	Elisabethville	11 39	27 28	1236	878·7	1013·9	− 2·2	300·8	302·8	10th	279·1	276·8	30th	289·9	..	+0·9	0	−68
1042	Gwelo	19 28	29 48	1417	865·9	1021·2	+ 0·5	295·4	298·9	23rd	279·8	277·9	30th	287·6	..	+1·4	0	−15
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡857·3	‡1017·9	− 0·7	295·8	302·4	11th	278·3	275·3	30th	287·1	286·2	+0·3	0	−43
1044	Zomba	15 23	35 18	955	911·9	1018·6	+ 0·2	296·7	299·1	11th, 20th	284·9	282·4	2nd	290·8	290·2	+0·6	2	−31
1045	ϕAntananarivo	18 55	47 33	1375	868·6	1019·6	+ 1·0	293·8	296·5	9th	281·7	278·6	25th	287·7	287·6	+0·5	10	−53
1046	Tamatave	18 10	49 24	5	..	..	..	297·7	299·5	..	289·8	281·0	..	293·8	293·3	..	203	+15
1047	Vohémar	13 21	50 1	3	..	..	..	303·7	305·0	..	292·8	292·0	..	298·2	297·5	..	30	−135
1048	Antalaha	14 58	50 19	3	1017·1	1017·4	..	..	..	..	..	..	..	..	..	..	..	−359
1055	Cocos Keeling Is.	12 5	96 53	4·6	1013·9	1014·4	+ 1·2	299·3	301·3	17th	296·6	294·3	27th	297·9	297·7	−1·5	109	+53
1057	ϕChristmas Island	10 25	105 43	5·5	1007·9	1008·5	− 0·4	301·8	304·1	2, 7, 11	295·9	293·6	21st	298·9	298·2	−1·0	744	+3
1061	Kupang	10 10	123 34	45·1	1005·9	1011·3	− 0·1	304·5	306·4	11th	294·4	292·6	9th	299·4	298·8	+0·1	8	+1
1061*a*	ϕDerby	17 18	123 40	16·2	1011·8	1013·7	− 0·9	301·4	304·1	19th	289·8	283·5	4th	295·6	..	−0·1	25	+11
1062	ϕHall's Creek	18 13	127 46	373	972·0	1014·4	− 1·9	299·1	304·0	1st	282·5	276·4	5th	290·8	290·1	−1·0	18	+1
1063	Darwin	12 28	130 51	29·6	1008·6	1012·0	+ 0·1	303·8	305·7	19th	293·6	288·8	29th	298·7	297·5	−0·4	1	+19
1064	Daly Waters	16 16	133 23	211	988·1	1012·2	− 2·0	300·8	305·2	1st	284·8	278·0	29th	292·8	292·1	−1·5	19	+5
1065	ϕMein	13 13	142 47	122	997·0	1010·8	− 0·8	302·1	304·4	26th	287·7	282·7	6th	294·9	..	−1·8	5	+1
1066	ϕGeorgetown, Queensland	18 22	143 32	302	980·0	1014·5	− 0·6	300·4	305·2	3rd	284·0	277·3	28th	292·2	..	−1·5	25	−58
1066*a*	Willis Island	16 18	149 59	8·5	1012·6	1013·6	..	299·2	300·8	4th, 7th	295·3	293·3	8th, 28th	297·3	297·0	..	12	+103
1067	Samarai	10 37	150 40	15·2	..	1012·1	+ 0·1	300·8	..	..	295·7	..	..	298·2	298·0	−0·3	103	+53
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1013·9	1014·6	− 0·5	298·5	300·3	22nd	292·2	288·6	25th	295·3	295·1	−1·4	207	+91
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112.
** Height changed from 59·3 m. to 51 m. from June 1st. ϕ Change of normals, *see* pages 112 and 113.

JUNE—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	297·9	299·9	18th	291·8	287·4	21st	294·9	294·7	0·0	149	+40
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1014·4	1017·7	+ 0·1	287·9	290·4	30th	283·3	281·5	20th	285·6	285·4	+0·3	38	−2
1122	Iquique	20 12	70 11	9	1015·4	1016·5	+ 0·8	291·2	293·0	9th	280·7	284·7	27th	288·9	289·7	+0·4	0	0
1123	Catamarca	28 27	65 47	510	955·1	1014·4	− 1·3	293·7	297·1	1st	270·9	272·0	22nd	286·8	286·7	+2·3	0	−4
1124	Salta	24 46	65 28	1178	883·4	1014·8	+ 0·6	293·2	302·9	18th	278·7	271·6	30th	285·9	285·8	+1·4	5	+2
1125	Goya	29 9	59 15	26	1011·8	1014·9	− 0·9	294·6	300·0	9th	283·9	276·2	29th	289·3	288·0	+1·3	49	+9
1126	Asuncion	25 17	57 41	93	1004·3	1015·4	− 1·2	297·9	306·1	12th	283·9	277·5	28th	291·9	290·7	+0·9	43	−29
1127	Curityba	25 25	49 17	908	914·9	1018·2	− 1·8	291·1	296·8	18th	280·5	271·6	25th	285·8	285·4	+0·2	150	+55
1128	Rio de Janeiro	22 54	W43 10	33·0	1014·1	1018·0	− 1·0	299·3	304·5	20th	290·7	286·8	24th	295·0	294·1	+0·6	+82	..
1139	ϕWindhoek	22 34	E17 5	1669	..	..	..	292·5	294·9	26th	279·7	274·5	21st	286·1	286·0	−0·1	0	−1
1140	Kimberley	28 42	24 47	1202	886·1	1022·3	− 1·5	290·4	296·3	7th	276·7	271·3	5th	283·5	282·9	+0·5	9	+3
1141	Johannesburg	26 11	28 4	1806	824·9	1022·9	− 0·9	288·1	290·5	26th, 28th	277·3	270·7	4th	282·7	282·2	−0·7	12	+8
1142	Bulawayo	20 9	28 35	1340	872·0	1018·2	− 0·4	295·5	298·9	23rd	280·4	276·8	18th	287·9	287·2	+0·8	0	−1
1143	Durban	29 52	31 3	15·2	1019·3	1021·1	− 1·7	295·8	299·9	8th	286·2	282·5	6th	291·0	290·5	+0·3	8	−21
1144	Lourenço Marques	25 58	32 36	59	..	1020·1	− 1·3	297·6	305·2	3rd	285·3	282·3	14th	291·5	291·1	−0·2	5	−9
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	283·8	282·8	..	..	..	..	4	..
1147	Fort Dauphin	25 2	46 58	25	..	1021·7	..	296·5	298·5	..	288·6	286·0	..	292·5	292·0	..	56	..
1147	Mauritius	20 6	57 33	55·2	1013·1	1019·6	+ 0·6	296·5	298·6	6th	289·5	285·0	8th	293·0	292·8	−0·8	105	+34
1159	Onslow	21 43	114 57	4·3	1013·3	1014·2	− 1·2	297·6	300·5	17th	284·1	279·1	11th	290·8	..	−1·1	28	−17
1160	Cue	27 27	117 52	454	961·7	1014·5	− 3·6	289·6	294·3	18th, 19th	280·9	274·4	9th	285·3	..	−1·3	58	+24
1161	ϕNullagine	21 53	120 5	386	969·9	1014·2	− 3·2	295·7	300·8	18th	280·1	271·8	11th	287·9	..	−1·5	23	−3
1162	Laverton	28 40	122 23	466	960·1	1014·3	− 5·8	289·2	293·1	13th	279·4	272·2	9th	284·3	284·2	−0·8	43	+19
1163	Alice Springs	23 38	133 37	587	947·4	1014·7	− 5·2	292·4	302·4	1st	279·1	273·0	5th	285·8	285·5	+0·4	28	+53
1163	ϕWilliam Creek	28 55	136 21	76·2	1004·7	1013·7	− 5·9	292·1	303·6	1st	280·7	275·2	20th	286·4	286·1	+1·0	31	+15
1165	Boulia	22 55	139 38	146	996·9	1013·9	− 2·9	296·2	306·3	2nd	282·2	278·0	11th	289·2	288·9	+0·6	53	+20
1165	Thargomindah	27 58	143 43	123	999·9	1014·5	− 3·9	291·4	302·6	1st	281·6	277·6	28th	286·5	286·2	0·0	61	+39
1167	Mitchell	26 32	147 52	330	976·2	1015·2	..	292·1	301·9	1st	277·8	271·1	21st	285·0	..	−0·1	77	+34
1167	ϕRockhampton	23 24	150 30	11·3	1014·0	1015·3	− 2·4	296·4	301·9	1st	283·2	278·9	12th	289·8	..	−0·8	99	+46
1168	ϕBrisbane	27 28	153 2	41·8	1009·5	1014·4	− 3·8	294·4	300·9	1st	283·4	278·4	21st	288·9	288·6	+0·2	68	−2
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1011·4	1013·3	− 3·8	292·8	294·7	7th, 8th	..	..	..	..	..	..	121	−28

Between Latitude 30° S. and 40° S.

JUNE—ZONE 12.

1211	Juan Fernandez	33 37 S.	78 50 W.	345	..	..	..	285·7	287·6	21st	282·0	279·2	30th	283·9	283·9	..	157	..
1212	Punta Tumbes	30 37	73 6	120	1001·4	1016·0	− 0·6	285·5	288·2	6th	279·3	275·0	5th	282·4	282·6	−1·5	118	0
1213	Punta Angeles, Valparaiso	33 1	71 38	41	1012·4	1017·4	− 0·5	288·0	291·4	21st	281·9	278·2	5th, 21st	284·9	284·6	−0·7	133	−11
1214	Santiago	33 27	70 42	520	955·8	1017·7	− 0·6	287·2	299·5	6th	276·1	271·5	5th, 21st	281·7	280·7	−0·1	72	−11
1215	Cordoba	31 25	64 12	423	965·5	1015·3	− 1·8	291·9	296·4	22nd	279·9	270·2	22nd	285·9	284·9	+2·1	20	+13
1216	Bahia Blanca	38 45	62 15	25	1011·4	1014·6	− 1·5	286·9	292·0	1st	278·6	273·5	26th	282·7	282·6	+1·2	55	+32
1225	Buenos Ayres (Chacarita)	34 36	58 22	25	1013·9	1017·0	− 1·3	288·4	293·8	4th	280·3	273·5	27th	284·3	284·3	+1·5	60	−4
1226	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1015·1	− 2·0	..	293·0	3rd	..	277·8	29th	..	285·0	+1·1	52	−37
1226	ϕPorto Alegre	30 2	W51 13	23·5	1012·9	1015·7	− 3·4	292·2	299·0	4th	283·9	276·8	24th	288·1	287·8	+1·5	87	−27
1239	ϕCape Town	33 56	E18 29	12·2	..	1018·0	− 2·1	289·2	295·3	12th	282·8	276·7	11th	286·0	284·8	−0·2	139	+25
1240	Danger Point	34 37	19 18	27·7	1017·7	1021·1	..	289·8	297·4	8th	283·0	278·6	18th	286·4	..	−0·1	116	+12
1241	Riversdale	34 6	21 16	‡? 100	1005·3	1017·4	..	291·8	299·1	6th	278·9	272·4	19th	285·3	..	..	39	+3
1242	East London	33 2	27 55	44·8	..	1018·5	− 3·1	294·9	306·3	7th	283·1	276·9	5th	289·0	..	+0·2	20	−14
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1004·0	1011·5	− 6·4	289·9	293·5	4th	282·9	278·5	8th	286·4	286·5	−0·4	325	+149
1260	Katanning	33 42	117 35	310	973·3	1010·3	− 6·6	287·1	290·8	4th	279·3	274·7	9th	283·2	..	−0·7	183	+112
1261	Coolgardie	30 57	121 10	423	962·6	1012·2	− 6·5	287·8	292·3	19th	279·4	273·1	9th	283·6	283·5	−1·0	78	+47
1262	Eucla	31 45	128 58	4·6	1010·7	1011·4	− 7·1	290·9	296·1	14th	281·4	276·9	5th	286·1	285·8	−0·2	26	−1
1263	Streaky Bay	32 48	134 13	13·1	1010·7	1012·2	− 7·2	290·1	295·1	1st	283·4	277·4	27th	286·8	286·5	+1·2	131	+60
1264	ϕAdelaide	34 56	138 35	42·7	1006·2	1011·4	− 7·7	288·7	294·0	1st	282·2	278·9	28th	285·4	285·3	+0·5	147	+68
1265	ϕMelbourne	37 49	144 58	35·1	1006·0	1010·2	− 8·3	287·2	291·7	2nd	281·4	275·8	29th	284·3	283·9	+1·1	58	+6
1266	Bourke	30 13	145 58	110	1003·4	1016·8	− 5·0	291·9	303·0	1st	280·7	274·7	21st	286·3	..	+1·2	61	+33
1267	ϕSydney	33 51	151 13	42·1	1005·7	1010·8	− 6·9	291·3	299·6	2nd	283·0	279·3	22nd	287·2	286·4	+1·6	96	−24
1268	ϕLord Howe Island	31 20	159 0	4·6	1011·1	1011·6	− 4·8	292·8	296·8	2nd	287·4	282·2	18th	290·1	..	+0·4	149	−42
1271	Auckland	36 50	174 50	38·1	..	1005·2	− 9·2	287·6	290·4	3rd	282·4	277·4	6th	285·0	..	+0·1	227	+104
1272	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Between Latitude 40° S. and 50° S.

JUNE—ZONE 13.

1301	Chatham Island	43 57 S.	176 31 W.	45·7	..	995·8	..	..	..	..	..	..	..	..	..	..	122	+36
1313	Isla Guafo	43 34	74 45	140	994·7	1011·7	− 1·7	282·0	284·8	11th	278·8	275·6	29th	280·4	280·5	−0·6	116	−6
1314	Punta Galera	40 1	73 44	40	1009·9	1014·8	− 0·2	283·7	287·0	11th	280·5	276·8	26th	282·1	282·4	−0·4	317	−30
1315	Sarmiento	45 30	69 0	274	977·5	1009·4	− 2·0	281·3	289·1	2nd	273·2	266·2	17th	277·3	277·3	+0·8	56	+43
1316	Puerto Madryn	42 49	W64 58	14	1009·3	1010·7	− 1·7	286·5	294·4	2nd, 3rd	277·3	271·7	23rd	281·6	281·6	+1·2	18	0
1365	Launceston	41 27	E147 10	10·1	1006·1	1007·3	− 8·2	285·7	288·4	1st	276·7	271·8	16th	281·2	280·7	+0·2	63	−27
1366	ϕHobart	42 53	147 20	53·9	1000·7	1007·3	− 6·9	284·6	288·5	1st	278·7	274·8	17th	281·6	281·1	+0·3	89	+32
1370	Invercargill	46 25	168 21	3·7	..	..	..	281·9	286·9	6th	274·3	269·7	7th	278·1	..	−0·8	161	+70
1371	Dunedin	45 52	170 31	91·4	..	1003·1	− 9·5	281·9	287·4	2nd	275·7	272·4	5th	278·8	..	−0·8	129	+49
1372	Christchurch	43 31	172 39	7·6	..	1002·6	−10·0	283·2	287·6	20th	274·2	269·7	23rd	278·7	..	−0·7	56	−11
	Wellington	41 16 S.	174 46 E.	3·0	..	1003·8	−10·4	285·8	289·5	4th	278·3	273·2	8th	282·1	..	−0·6	86	−35
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

JUNE—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	997·2	1004·0	+ 1·5	279·0	281·6	28th	274·4	270·5	11th, 12th	276·7	*276·3*	−1·2	142	− 62
1422	Puerto de Punta Arenas	53 10	70 54	28	1000·2	1003·7	+ 0·7	276·8	281·4	26th	272·5	268·6	16th	274·7	*274·6*	−0·7	8	− 20
1423	Punta Dungeness	52 24	68 26	5	1001·9	1002·5	+ 0·5	278·8	284·5	2nd	273·3	270·6	13th	276·1	*275·6*	−0·7	..	..
1424	Santa Cruz	50 11	68 21	12	1004·5	1005·6	+ 0·7	278·0	288·0	2nd	270·8	262·8	9th	274·4	274·6	−0·3	34	+ 21
1424a	‡Año Nuevo	54 39	64 8	50	..	..	..	275·3	280·0	2nd	274·1	268·5	14th	274·7	*274·4*	−1·2	108	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1003·4	..	277·2	281·9	2nd	271·9	262·4	15th	274·6	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	999·3	1001·9	− 0·7	277·2	281·9	3rd	272·9	265·8	15th	275·0	275·4	−0·7	..	..
1429	S. Georgia (Cumberland Bay)	54 14 S.	36 33 W.	4	1000·0	1000·5	+ 1·7	275·0	287·0	3rd	268·9	265·3	21st	271·9	*272·6*	+1·1	99	− 27

JUNE—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44 S.	44 39 W.	7	993·4	994·3	− 2·1	268·2	276·2	3rd	262·3	249·8	15th	265·3	265·2	+1·7	19	− 19
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—JUNE 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).	Entebbe. 844. Direction and Force (Beaufort).	Malden Island. 905. Direction and Force (Beaufort).	Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).	Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h. 17h.	7h. 21h.	9h. 20h.	9h.	8h. 20h.	9h.
1	SE	5·8	ESE 3	NE 1 SW 2	SE 1 SE 2	EbyS 5 EbyS 2	SE 2	E 2 E 3	E 2
2	SE	4·9	..	SSW 1 SW 1	NW 2 Calm 0	EbyS 3 EbyS ..	SE 2	ESE 3 ESE 3	ESE 4
3	ESE	2·8	Calm 0	NE 1 SW 2	E 1 Calm 0	SE 2 EbyS 3	SE 4	ESE 3 ESE 3	E 3
4	Calm	2·5	ESE 3	SW 1 SW 1	N 1 S 1	ESE 4 ESE 4	SE 2	ESE 3 NE 3	E 4
5	Calm	6·9	E 2	SW 2 SW 2	S 1 S 1	EbyN 4 E 2	SE 4	E 4 E 3	NW 1
6	SE	5·7	E 2	Calm 0 SW 2	Calm 0 S 1	E 4 E 3	SE 2	ESE 4 ESE 5	SE 1
7	SE	6·9	E 3	E 1 W 1	W 1 S 2	E 2 E 2	SE 2	ESE 3 ESE 1	E Calm 0
8	SE	8·2	E 3	NE 1 SSW 1	W 1 S 1	EbyS 4 E ..	Calm 0	E 5 E 3	N 2
9	SE	7·8	ENE 3	SW 1 SW 2	W 1 NE 1	E 3 ..	Calm 0	E 3 E 1	SW 3
10	SE	8·9	ESE 3	NE 2 SE 1	W 1 S 1	E 4 E 3	Calm 0	E 1 Calm 0	W 4
11	ESE	7·1	ENE 2	SE 1 Calm 0	N 1 NE 1	EbyN 3 EbyN 2	SE 2	Calm 0 Calm 0	NW 4
12	SE	4·9	Calm 0	NNE 1 SW 1	S 1 SW 2	E 2 E 2	Calm 0	Calm 0 Calm 0	N 2
13	SE	3·1	Calm 0	E 1 SW 2	S 1 S 1	ESE 3 EbyN 2	SE 4	E 1 E 1	NNE 2
14	SE	1·5	Calm 0	Calm 0 SW 1	S 2 S 2	EbyN 2 EbyN 2	SE 4	E 3 E 3	NE 3
15	Calm	1·3	E 2	Calm 0 SW 3	S 1 N 1	EbyN 2 E 3	SE 4	E 3 Calm 0	Calm 0
16	SE	5·9	E 2	W 1 SW 2	W 1 S 2	E 4 E 3	SE 4	Calm 0 Calm 0	NE 2
17	SSE	3·1	Calm 0	WSW 1 SW 1	S 1 SE 1	E 3 ESE 2	SE 2	Calm 0 Calm 0	SW 2
18	SSE	4·5	SW 1	SW 1 SW 1	SW 1 S 2	EbyS 4 EbyS 2	SE 2	E 1 E 1	N 2
19	SSE	3·9	SE 2	Calm 0 SW 3	W 2 NW 1	E 3 E ..	SE 2	E 3 E 1	N 2
20	SE	4·2	Calm 0	E 2 SW 2	NW 1 S 1	E 2 EbyN 3	SE 2	E 3 E 1	Calm 0
21	ESE	3·5	Calm 0	NE 1 SW 3	Calm 0 N 2	ENE 3 SE 2	Calm 0	E 1 E 3	SSE 5
22	SE	5·0	Calm 0	NE 1 SW 1	SW 1 Calm 0	EbyS 3 EbyS 3	SE 4	E 2 E 2	S 5
23	SE	5·9	Calm 0	ENE 1 S 3	NW 1 Calm 0	EbyN 5 E ..	SE 4	E 2 E 1	S 2
24	SE	5·1	ESE 4	NE 1 SW 2	W 1 Calm 0	E 4 E 2	SE 4	E 3 E 1	N 2
25	ESE	3·3	E 3	Calm 0 SW 1	NW 1 Calm 0	E 4 EbyS 3	SE 2	E 1 Calm 0	NW 2
26	ESE	3·2	SE 3	SW 1 SW 1	SW 1 SE 1	E 3 EbyN 2	Calm 0	ESE 2 ESE 1	N 2
27	ESE	5·8	SE 2	SSW 1 SW 1	SW 1 E 2	E 4 E 3	Calm 0	ESE 1 ESE 1	NNW 2
28	SE	4·7	ESE 2	SW 1 Calm 0	Calm 0 SW 1	E 4 ESE 2	SE 2	ESE 2 ESE 3	N 3
29	SE	3·3	E 2	NE 1 SW 2	N 2 SW 1	EbyS 5 SSE 4	SE 4	ESE 2 ESE 3	S 5
30	Calm	2·0	SE 3	SSW 1 SW 2	W 1 Calm 0	ESE 4 EbyS 3	SE 4	ESE 5 ESE 3	..
Mean	..	4·7	1·7	0·9 1·6	1·0 1·0	3·4 2·5	2·1	2·2 1·7	..
§Resultant	135° (81)	..	105° (57)	215° (41)	215° (30)	95° (96)	135° (76)	100° (77)	25° (18)
§Normal	136° (84)	6·4	‖102° (70)	267° (19)	245° (40)	‖| 87° (84)	131° (81)	‖109° (53)	07° (68)

‖ Normal refers to ½(9 + 21). ‖| Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—JUNE 1923.

‡‡*Kara Sea.*—By the 23rd Kara Strait and Yugor Strait became free of ice. The area covered was 241 × 10^3 sq. km. as compared with a normal of 253 × 10^3 sq. km.

‡‡*White Sea* became free of ice during the first few days and on the 6th navigation became possible at Mezen.

‡‡*Barents Sea.*—In the northern part the ice edge was more northerly than usual. The west coast of Novaya Zemlya was free of ice to Berg Island but there was firm ice in Matotchkin Strait. Round Bear Island the sea was open. The area covered was 586 × 10^3 sq. km. compared with a normal of 841 × 10^3 sq. km.

‡‡*Spitsbergen.*—The fjords and the west coast were free of ice except for a mass of ice to the west of South Cape which grew narrower. At Danes Island the sea was open and on the north coast the ice edge was lying 10 miles north of Norwegian Islands trending towards Welcome point.

‡‡*Iceland.*—Drift ice was lying off the coast round Cape North at the beginning of the month, but by the 15th the ice had disappeared on the route from Cape North eastward. Grimsey was free of ice. The normal duration of average ice conditions is 7 days visible, 1 day heavy.

‡‡*Greenland Sea and Denmark Strait.*—At Angmagsalik a belt of "Storis" 8 miles wide was lying along the land while the sea was free of ice in the offing. After the 15th this ice became scattered. The area covered was 924 × 10^3 sq. km. as compared with a normal of 921 × 10^3 sq. km.

‡‡*N. Atlantic and Labrador.*—Forty-two icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 72. The drift of icebergs had everywhere decreased since May as is usual. The Gulf of St. Lawrence was free of ice except for some heavy scattered ice between Anticosti and Newfoundland during the first days. Later in the month the heavy ice in Belle Isle Strait began to scatter, but it was mingled with icebergs.

‡‡*Davis Strait and Baffin Bay.*—A belt of scattered ice of normal width extended from Cape Farewell to Frederikshaab until about the 25th when the ice began to drift away. A little wasted "Storis" occurred 50 miles west of Fiskernaes on the 13th. From here to Upernivik the sea was free of ice except for icebergs. On the 17th the winter ice drifted out of Umanak Fjord. There was firm ice at Ponds Inlet, in Eclipse Sound and the adjoining fjords. In Rowes Welcome there was open water with coast ice from Beach Point to Wager River which was also open; south of this there were large floes.

‡‡*Bering Sea and Bering Strait.*—The ice edge was met with on the west side of St. Lawrence Island, along the north coast of which there was alternately close and loose ice. East of this island the ice edge extended eastwards to 10 miles off Sledge Island and thence northwards to East Cape.

‡‡ *Isforholdene i de arktiske Have* 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, JULY 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF JULY 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **JULY—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1425	Barrow	71 23	156 17	7·0	..	1015·9	..	281·9	291·3	28th	274·4	270·2	10th	278·1	..	+0·5	13	− 14
1423 1424 1425	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1423	Upernivik	72 47	56 7	19·2	1009·2	1011·5	0·0	283·4	288·8	28th	276·2	273·2	13th, 21st	279·8	*279·5*	+1·5	48	+ 25
1433 1434 1435	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1435	Jan Mayen	70 59	W 8 18	23·1	1003·5	1006·3	..	..	281·9	30th	275·7	272·2	2nd	..	*277·8*	..	36	..
ϕ1460	ϕSpitsbergen (GreenHarbour)	78 2	E 14 14	11·4	1009·0	1010·4	− 2·1	..	288·8	24th	277·9	275·7	12th	..	279·8	+1·4	20	+ 4
1461	Björnöen	74 28	19 15	40·5	1004·8	1009·8	..	..	283·8	19th	275·1	271·7	15th	..	*276·8*	..	21	..
1462	Gjesvaer	71 6	25 22	6·5	1008·1	1008·9	− 2·8	..	278·1	19th	281·8	278·5	4th	..	*284·6*	+1·7	49	− 16
1463	Mehavn	71 1	27 47	4·6	1008·3	1009·3	− 2·8	..	297·1	18th	280·8	277·3	16th	..	*283·5*	+0·7	22	− 27
	Vardö	70 22	31 8	6·8	1009·0	1009·8	− 1·9	..	289·2	21st	280·5	277·1	16th	..	*282·4*	+0·7	40	− 7
1467 1468 1553	Malye Karmakouly	72 23	52 43	14·8	1010·4	1012·2	− 0·8	282·8	294·3	22nd	277·1	272·7	10th	280·0	*279·7*	+0·2	13	− 18
	Waigatz	70 24	58 47	11·2	1008·2	1009·5	− 1·1	282·6	290·5	3rd	276·8	271·5	29th	279·7	*279·4*	..	24	..
	Dickson	73 30 N.	80 23 E.	13	1008·6	1010·2	..	280·7	292·0	21st	275·0	271·2	13th, 14th	277·8	..	..	9	..

Between Latitude 70° N. and 60° N. **JULY—ZONE 2.**

2003 2004 2005	Nome	64 30	165 24	6·7	..	1016·2	+ 4·7	287·1	298·0	31st	280·2	272·4	11th	283·6	*283·9*	+0·5	17	− 56
	Candle	65 55	161 57	2·4	..	..	..	291·7	298·6	16th	279·7	268·6	12th	285·7	..	+1·1	..	..
	Tanana	65 10	152 6	67·1	..	1015·9	+ 4·9	296·9	303·6	27th, 28th	281·3	274·1	21st	289·1	..	+1·4	50	− 11
2006	Rampart	65 30	150 15	122	..	..	..	297·6	305·8	27th, 28th	281·3	276·3	15th	289·4	..	+0·7	29	− 7
2007 2008	Valdez	61 7	146 16	8·2	..	..	..	..	..	..	..	..	..	..	..	..	83	+ 3
2009 2010	ϕEagle	64 46	141 12	254	..	1014·2	+ 4·1	298·4	305·2	28th	281·2	276·3	12, 17, 30	289·8	..	+1·7	17	− 27
	ϕDawson	64 4	139 29	324	976·7	1014·5	+ 3·3	298·0	304·7	28th	280·8	275·2	12, 16, 31	289·4	..	+1·4	15	− 23
2011	Carcross	60 11	134 34	662	..	..	..	298·2	303·0	1st, 5th	280·2	275·2	4, 26, 30	289·2	..	+1·4	15	− 23
2012	Fort Good Hope	66 25	128 53	65·2	1009·0	1016·8	..	295·7	304·7	19th	280·5	270·8	24th	288·1	..	..	24	+ 10
	Fort Simpson	61 52	121 35	129	996·8	1012·0	+ 1·5	298·3	307·4	10th	282·8	274·7	1st	290·5	..	+1·8	62	+ 12
2013	Hay River	60 51	115 20	161	992·1	1011·2	+ 0·7	292·7	304·7	10th	282·3	275·2	1st	287·5	..	−0·8	36	+ 2
2025 2026	Jacobshavn	69 13	51 2	12·6	1008·0	1009·5	− 1·5	283·6	288·3	3rd	278·0	275·0	23rd, 24th	280·8	*280·9*	+0·2	22	− 9
	Godthaab	64 11	51 43	20·4	1006·2	1008·7	− 1·3	286·8	292·2	9th	277·7	275·6	24th	282·3	*280·3*	+0·7	16	− 43
2029	Ivigtut	61 12	48 10	13·0	1006·8	1008·4	− 1·9	286·5	289·5	6th	277·7	275·6	31st	282·1	*282·1*	−0·8	16	− 67
	Angmagsalik	65 37	37 33	31·7	1004·0	1007·9	− 3·9	285·7	290·4	4th	277·0	274·0	18th	281·3	*280·7*	+1·1	10	− 41
2031 2032 2033	Stykkisholm	65 5	22 46	25	1001·5	1004·5	− 5·8	285·7	290·8	14th	279·9	277·5	30th	282·8	*282·1*	−0·6	63	+ 25
	Vestmanno	63 24	20 17	132	987·2	1003·1	− 6·9	..	..	..	280·5	278·6	18th, 26th	..	*282·6*	−0·4	81	+ 2
2034	Grimsey	66 33	18 1	22·0	1001·9	1004·6	− 6·2	282·7	289·3	14th	278·3	275·2	21st	280·5	*280·2*	+0·0	63	+ 35
2035 2036	Teigarhorn (Berufjord)	64 41	14 22	18·0	1001·6	1003·8	− 6·8	287·3	292·2	13th, 15th	280·1	277·4	28th	283·7	*282·8*	+1·0	173	+107
	ϕThorshavn	62 3	6 45	26·3	1003·6	1006·8	− 4·8	286·0	289·5	10th	281·1	277·4	28th	283·5	*283·2*	−0·1	69	− 12
	Lerwick	60 9	W 1 11	18·0	..	1010·7	− 0·5	287·3	290·8	7th	282·8	279·7	28th	285·1	*285·1*	+0·6	47	− 11
2037 2038	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1005·7	1011·0	− 0·2	290·0	300·5	8th	284·3	280·7	2nd	287·1	*286·8*	−0·3	99	− 19
2039	Aalesund	62 28	6 10	6·3	1009·7	1010·5	− 0·6	..	..	..	283·6	280·6	1st	..	*285·6*	−0·3	74	− 8
2040	Trondhjem	63 26	10 25	39·5	1005·4	1010·1	− 0·8	291·5	301·2	9th	283·1	277·5	26th	287·3	*286·6*	−0·4	40	− 16
2041	Bodö	67 17	14 24	22·3	1006·4	1009·1	− 2·3	..	295·6	16th	281·3	279·0	1st	..	*284·6*	−0·9	84	+ 19
2042	Haparanda	65 50	24 9	9·2	1006·8	1007·9	− 2·4	292·0	299·0	12th	283·4	280·0	9th	287·7	*287·5*	−0·6	40	− 6
2042a	ϕHelsingfors	60 10	24 57	11·7	1009·0	1010·4	− 0·4	294·1	301·2	12th	285·9	282·1	2nd	290·0	*289·8*	+0·2	37	− 20
	Kuopio	62 54	27 40	90·3	997·8	1008·4	− 2·7	294·1	301·5	11th	285·2	281·0	1st	289·7	*290·3*	+0·8	65	− 1
2043 2044 2045	Kola	68 53	33 1	6·7	1008·0	1008·8	− 2·3	290·7	297·0	18th	282·6	277·8	16th	286·6	*286·6*	+1·3	57	+ 10
	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2046	Arkhangelsk	64 34	40 31	6·3	1006·7	1007·5	− 3·1	291·9	301·3	5th	283·6	276·2	18th, 19th	287·8	*287·7*	−1·0	45	− 15
2047	ϕMezen	65 50	44 16	14·9	1005·5	1007·3	− 2·6	290·7	300·2	5th	281·3	273·0	18th	286·0	*286·2*	−0·4	90	+ 43
2048	Oust-Tsylma	65 25	52 18	? 68	..	..	..	291·9	301·7	2nd	283·5	277·1	10th	287·7	*287·5*	+0·3	50	− 19
	ϕTcherdyn	60 24	56 31	?177	984·2	1004·9	− 4·2	294·3	305·4	2nd	285·5	279·5	15th	289·9	*289·5*	−0·7	129	+ 68
2049 2050 2051	Berezov	63 56	65 4	39·5	1002·8	1007·5	− 2·0	294·1	300·4	20th	287·4	278·9	15th	290·8	*290·5*	+1·8	92	+ 32
	Obdorsk	66 31	66 35	23·7	1004·7	1007·5	− 2·4	292·8	299·9	2nd	284·6	276·5	14th	288·7	*288·9*	+2·1	39	− 12
2052	ϕSourgout	61 15	73 24	? 40	1000·2	1004·8	− 2·5	..	301·7	30th	286·8	277·8	16th	..	*292·2*	+2·1	100	+ 94
2053 2054	Doudinka	69 23	86 4	20·0	1005·8	1008·2	+ 2·0	..	298·4	21st	282·0	274·3	11th	..	*286·8*	+0·9	54	+ 18
	Touroukhansk	65 47	87 57	45·0	1002·7	1008·0	+ 2·5	..	301·4	5th	283·4	277·1	12th	..	*290·0*	+1·2	50	0
2061 2062 2063	Viliouisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Iakoutsk	62 1	129 43	108	994·3	1007·0	+ 2·0	..	301·2	18th	282·4	275·5	1st	..	*289·6*	−2·5	31	− 9
	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2071 2072		° N.	° E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

JULY—ZONE 3. Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1015·9	+ 4·7	282·8	285·2	9th, 21st	278·1	275·8	3rd, 15th	280·4	..	0·0	49	− 25
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1015·9	— 0·2	286·1	296·9	20th	280·0	277·4	1, 11, 23	283·0	*282·5*	−0·7	03	+ 4
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	291·7	300·8	24th	281·4	277·4	20, 21, 22	286·6	..	+0·7	30	− 42
306	Kodiak (Radio)	57 46	152 22	6·1	..	1017·6	+ 2·9	291·3	299·7	24th	282·2	279·7	sev. dates	286·8	*286·4*	+1·4	25	− 60
										Sea temp.								
307	55°—50° N. 150°—145° W.	††51 34	††147 36	§(24)	..	1022·3	+ 4·4	..	..	284·1 0·0	..	..	..	..	284·1	+1·1	..	..
309	Sitka	57 3	135 19	27·4	..	1018·6	+ 1·1	291·5	299·1	16th, 17th	283·3	279·7	16th	287·4	*287·4*	+1·7	58	− 48
310	Prince Rupert	54 18	130 18	51·8	1012·0	1018·2	— 0·2	291·3	298·6	7th	283·0	278·6	5th	287·2	*287·1*	+1·0	38	− 85
311	Barkerville	53 2	121 35	1274	870·8	1012·0	— 0·5	293·0	297·4	23rd, 24th	279·1	271·9	31st	286·1	*285·5*	+0·8	61	− 21
312	Kamloops	50 41	120 29	385	971·4	1015·4	— 0·5	302·8	311·3	23rd	287·2	282·4	4th	295·0	*294·8*	+1·2	17	− 11
313	Calgary	51 2	114 2	1045	896·0	1011·4	+ 0·8	297·4	305·8	23rd	286·3	275·2	31st	291·9	*290·5*	+2·7	86	− 20
314	Fort Chipewyan	58 42	111 10	218	985·7	1011·2	+ 0·5	295·2	302·4	11th	283·0	273·0	1st	289·1	*289·8*	−0·5	24	− 37
315	Prince Albert	53 10	105 38	442	962·3	1013·1	+ 3·1	298·0	303·6	25th	285·8	279·7	1st, 2nd	291·9	*291·5*	+1·8	74	+ 17
316	Qu'Appelle	50 30	103 47	645	938·6	1011·6	+ 0·8	298·0	304·1	22nd	286·3	278·6	1st	292·2	*291·6*	+1·7	181	+ 111
317	Minnedosa	50 15	99 50	515	954·5	1013·3	+ 1·4	297·7	304·2	22nd	286·4	277·9	30th	292·1	*291·9*	+1·5	152	+ 86
318	Berens River	52 18	97 23	216	..	..	..	298·8	306·9	21st	283·6	277·4	1st	291·2	..	−0·1	81	+ 10
318*a*	ϕPort Nelson	57 0	92 51	14·9	1008·4	1010·2	— 1·3	295·7	304·7	12th	284·0	275·8	25th	289·8	..	+3·6	12	− 36
319	Fort Hope	51 33	87 49	‡260	982·6	1012·9	+ 1·5	296·3	305·8	18th	283·0	273·0	27th	289·7	*290·3*	−0·1	61	− 10
320	ϕMoose Factory	51 14	80 30	9·1	1014·0	1015·1	+ 4·2	295·3	304·7	17th	281·4	273·0	26th	288·4	..	−0·9	45	− 17
321	Fort George	53 50	79 5	97·5	..	..	..	288·7	296·3	1st	280·5	275·8	22nd	284·6	*284·7*	..	8	..
322	Mistassini Post	50 15	73 55	383	..	..	..	293·4	300·8	18th	279·1	271·3	13th, 26th	286·2	..	−2·9	60	− 42
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	290·8	298·0	4th	281·8	277·4	29th	286·3	..	−0·6	95	+ 10
										Sea Temp.								
326	ϕBelle Isle	51 53	55 23	130	995·3	..	..	284·8	291·3	15th	277·8	274·7	7th, 8th	281·3	*281·2*	−1·3	72	− 54
331	55°—50° N. 30°—25° W.	††52 27	††27 31	§(62)	..	1015·2	..	..	..	28·6 3 +0·6	..	..	..	..	286·9	..	..	..
333	53°—48° N. 20°—15° W.	††50 26	††17 33	§(36-39)	..	1017·0	..	..	..	28·8 9 +0·5	..	..	..	..	289·3	..	..	..
333*a*	62°—57° N. 20°—15° W.	††60 0	††17 6	§(44)	..	..	..	..	..	28·4 5 −0·3	..	..	..	..	284·9	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1015·8	+ 0·3	291·1	294·7	6th	286·5	283·6	11th	288·8	288·7	+0·8	92	− 22
335	Aberdeen	57 10	W 2 0	26·8	..	1011·4	— 1·2	290·9	299·1	12th	284·3	282·4	27th	287·6	287·2	+0·9	52	+ 9
336	ϕGreenwich	51 28	0 0	46·3	..	1016·0	+ 0·4	298·8	306·3	11th	286·5	281·9	27th	292·7	292·1	+2·2	66	
337	Uccle	50 48	E 4 22	100	1004·8	1016·5	+ 0·6	298·6	307·8	11th	286·9	279·0	2nd	292·7	291·9	+2·4	80	− 9
338	De Bilt	52 6	5 11	3·0	1015·5	1015·9	+ 0·6	297·1	307·8	12th	287·3	279·9	2nd	292·2	291·9	+2·0	58	− 19
338*a*	Hamburg	53 33	9 58	40·3	1010·6	1015·3	+ 1·5	296·0	306·5	14th	287·7	281·5	3rd	291·9	*291·8*	+1·8	101	+ 18
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1013·4	1014·0	+ 1·1	294·6	303·8	13th	286·0	281·2	27th	290·3	*290·2*	+1·8	56	− 5
340	Potsdam	52 23	13 4	84·9	1006·5	1016·5	+ 2·1	297·7	308·3	14th	286·8	282·4	28th	292·3	292·0	+1·4	61	− 21
340*a*	Uppsala	59 51	17 38	24	1007·4	1010·2	— 0·4	296·1	305·1	12th	284·3	279·2	9th	290·2	290·3	+0·7	31	− 37
341	Warsaw	52 13	21 3	89·9	1005·6	1016·3	+ 2·2	296·6	305·6	15th	286·6	279·4	1st	291·5	291·7	..	36	− 22
342	Tartu (Dorpat) (Ilmajõgi)	58 23	26 43	74·5	1003·0	1011·8	+ 0·8	295·4	302·5	13th	284·7	280·2	2nd	290·1	289·5	−0·5	59	
343	Petrograd	59 56	30 16	4·8	1009·2	1009·8	— 0·8	293·5	298·2	5th, 13th	286·0	281·5	2nd	289·8	*289·8*	−0·6	23	− 41
344	Kiiv	50 27	30 30	183	992·8	1014·2	+ 2·5	297·0	303·7	15th	286·7	282·4	28th	291·8	*291·1*	−1·2	75	− 3
344*a*	Moscow	55 50	37 33	167	989·8	1009·5	— 1·1	293·1	299·5	14th	285·3	278·9	18th	289·2	*288·7*	−2·3	140	+ 65
345	Saratov	51 33	45 57	122	994·8	1009·0	— 0·6	299·8	307·9	4th	288·3	281·8	18th	294·0	*293·5*	−0·2	45	− 1
346	Kazan	55 47	49 8	79·9	998·3	1007·6	— 2·8	298·1	306·5	4th, 5th	288·1	281·2	19th	293·1	*292·2*	−0·7	55	+ 3
347	Orenburg	51 45	55 6	109	996·2	1008·8	— 0·9	302·8	309·9	8th	288·4	280·0	19th	295·6	*295·6*	+0·7	37	+ 24
348	Perm	58 1	56 16	163	987·5	1006·5	— 2·9	295·9	305·5	2nd	286·9	281·0	21st	291·4	*290·9*	0·0	98	
349	Sverdlovsk	56 50	60 38	281	973·9	1006·3	— 1·7	297·0	304·8	2nd	286·2	285·0	20th	291·6	*291·2*	+1·2	84	+ 10
350	Tobolsk	58 12	68 14	108	993·5	1006·0	— 2·6	297·9	305·2	11th	287·6	278·0	2nd	292·8	*292·4*	+1·4	137	+ 50
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	299·8	308·9	13th	285·1	280·8	2nd	292·5	*293·0*	−0·2	44	+ 5
352	Omsk	55 1	73 19	108	994·2	1006·7	— 1·3	299·9	307·8	11th	287·1	280·0	15th	293·5	*293·4*	+1·0	80	+ 24
353	Barnaoul	53 20	83 48	162	988·4	1007·1	+ 1·4	299·8	307·2	14th	286·6	279·4	3rd	293·2	*293·3*	+1·0	61	+ 0
354	Tomsk	56 30	84 58	122	992·2	1006·3	— 0·8	..	306·0	13th	285·9	280·1	17th	..	*293·6*	+2·8	69	− 4
355	ϕMinousinsk	53 43	91 41	248	978·6	1007·2	+ 0·7	..	305·4	13th	287·5	280·6	3rd	..	*293·7*	+0·4	45	− 8
356	Eniseisk	58 27	92 10	77·6	998·0	1007·2	+ 1·0	..	303·8	11th	284·0	276·1	4th	..	*292·1*	+0·2	41	− 21
357	Irkutsk	52 16	104 19	467	953·4	1006·6	+ 0·1	298·6	305·5	20th	285·2	280·1	5th	291·9	291·3	+0·9	69	− 15
358	Kirensk	57 47	108 7	263	976·7	1007·1	+ 1·5	..	305·5	20th	284·8	278·1	14th	..	*291·8*	0·0	85	+ 30
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	961·0	1004·5	— 1·2	296·6	305·5	18th	283·6	274·7	24th	290·1	*290·4*	−0·6	233	+124
362	Blagoveshchensk (Bureau Météor.)	50 16	127 30	142	986·2	1002·5	— 3·0	300·6	307·2	22nd	289·3	284·3	24th	295·0	*294·5*	+0·2	95	− 23
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	1000·4	1011·0	+ 0·7	284·1	291·5	1st	279·6	277·5	1, 7, 8	281·8	*281·0*	−2·6	161	+ 82
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N. **JULY—ZONE 4.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1008·4	1016·8	— 0·5	292·7	300·8	13th	284·3	282·0	29th	288·5	287·9	−0·1	24	+ 13
412	Portland, Oregon	45 32	122 41	46·6	1011·1	1016·6	— 0·7	298·3	306·9	13th	287·5	284·1	31st	292·9	*292·8*	+0·7	55	+ 40
413	Macleod	49 44	113 24	953	..	..	..	298·8	307·4	24th	285·0	278·6	31st	291·9	*292·3*	+0·7	33	− 18
414	Helena	46 34	112 4	1253	874·5	1013·2	— 0·3	301·3	306·9	19th	286·7	281·3	31st	294·0	*293·8*	+1·1	34	+ 5
414*a*	Salt Lake City	40 46	111 54	1329	867·3	1011·5	+ 0·1	304·6	308·0	30th	292·8	289·7	2nd	298·7	*298·5*	+0·9	5	− 8
415	Cheyenne	41 8	104 48	1856	817·0	1014·2	+ 0·5	299·1	302·4	30th	286·3	282·4	5th	292·7	*292·3*	+0·1	82	+ 31
416	North Platte	41 8	100 45	860	918·6	1015·6	+ 1·2	303·4	308·0	7th	291·3	285·8	1st	297·4	*297·1*	+1·0	92	+ 21
416*a*	Bismarck	46 47	100 38	510	955·8	1014·9	+ 1·1	302·3	307·4	8th	289·6	284·1	1st	295·9	*296·1*	+1·8	121	+ 64
417	Winnipeg	49 53	97 7	232	986·2	1013·0	+ 0·7	301·3	308·6	22nd	288·6	280·2	2nd	294·9	*294·7*	+2·8	90	+ 11
418	Duluth	46 47	92 6	345	975·4	1015·9	+ 1·7	296·0	304·7	19th	286·3	282·4	5th	291·1	*291·2*	+0·5	137	+ 41
419	Port Arthur	48 27	89 12	196	992·7	1015·6	+ 1·8	295·8	308·0	19th	285·8	279·7	3rd	290·8	*290·8*	+1·0	74	− 20
420	Chicago	41 53	87 37	251	987·0	1016·2	+ 1·0	299·9	308·0	10th	293·2	289·7	1st	296·6	*296·5*	+0·3	68	− 18
421	Toronto	43 40	79 24	116	1002·7	1016·3	+ 1·9	299·4	306·4	20th	288·2	284·0	26th	293·8	293·7	+0·2	44	− 28
422	ϕNew York (Central Park)	40 47	73 58	47·4	1010·7	1016·2	+ 0·7	301·3	310·2	20th	291·1	288·0	3rd	296·2	295·6	−1·3	70	− 42
423	ϕSt. John, N.B.	45 17	66 4	36·2	1010·1	1014·4	+ 0·7	293·2	302·2	21st	283·6	281·1	4th	288·4	287·8	−0·4	53	− 39
424	S.W. Point, Anticosti	49 24	63 33	9·1	1011·2	1012·3	+ 1·8	288·6	293·8	19th	282·9	279·4	8th	285·8	*285·9*	−0·9	73	− 8
424*a*	Sable Island (Main Station)	43 57	60 6	7·6	1014·5	1015·4	— 0·5	288·6	291·9	2, 12, 13	284·1	281·3	8th	286·3	*285·9*	−1·6	98	+ 5
425	Port aux Basques	47 35	59 10	9·1	1012·2	1013·3	— 0·4	289·1	296·1	2nd	282·0	278·3	13th	285·5	*285·4*	−0·7	122	+ 10
426	St. John's, Newfoundland	47 34	52 42	48·8	1007·1	1012·9	— 0·7	293·0	301·3	3rd	283·6	279·7	7, 9 30	288·3	*287·9*	+0·1	129	+ 33
										Sea Temp.							
430	50°—45° N. 35°—30° W.	††46 36	††10 28	§(19)	..	1019·4	..	..	..	291·2 | +1·8	..	..	..	..	290·7	..	..	..
435	Madrid	40 24	3 41	667	941·2	1015·4	+ 1·0	304·3	308·8	26th	290·9	285·0	11th, 12th	297·6	*296·7*	+1·5	21	+ 11
436	Nantes	47 15	W 1 34	36·5	1014·0	1018·6	+ 0·7	298·2	309·3	6th	287·5	283·5	4th	292·9	292·8	+1·6	35	− 21
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1012·2	1018·4	+ 1·4	298·9	307·1	13th	287·7	282·7	27th	293·3	293·4	+2·3	64	+ 12
438	Marseille	43 18	5 23	75	..	1016·8	+ 1·7	303·9	308·4	14th	289·9	284·9	1st	296·9	*296·3*	+1·2	0	− 17
438*a*	Zürich	47 23	8 33	493	961·8	1018·1	+ 1·3	301·0	307·9	14th	287·0	282·7	1st	294·0	293·1	+2·0	72	− 58
439	Rome	41 54	12 27	45·5	1011·2	1016·2	+ 1·2	305·2	308·0	18th	293·1	287·8	2nd	299·2	*299·5*	+2·0	0	− 17
440	Vienna	48 15	16 22	203	994·2	1017·8	+ 2·8	297·8	304·0	15th	288·4	282·5	3rd	293·1	293·3	+2·0	53	− 26
440*a*	Budapest	47 31	19 2	130	1001·9	1017·1	+ 3·2	301·6	307·6	15th	288·0	281·9	3rd	295·1	295·1	+1·3	41	− 14
441	ϕSofia	42 42	23 20	550	953·3	1015·9	+ 2·1	298·8	304·3	19th, 27th	287·1	283·6	2nd	292·9	*292·7*	+0·9	162	+ 90
442	Bucharest	44 25	26 6	82	1006·0	1015·6	+ 3·0	301·5	306·1	17th	289·1	283·6	1st	295·3	294·8	−0·9	75	+ 7
443	Odessa (Observatory)	46 26	30 46	42·8	1009·4	1014·4	+ 2·0	300·3	306·0	16th	290·3	283·2	11th	295·3	*295·0*	−0·6	12	− 37
444	Kharkiv (University)	50 0	36 14	140	995·8	1011·9	— 0·1	298·9	306·0	15th	286·6	282·3	17th	292·8	*292·3*	−0·7	17	− 49
444*a*	Novorossiisk	44 44	37 49	37·1	1007·5	1011·8	+ 0·9	302·6	306·0	23rd	292·2	286·7	12th	297·4	*297·4*	+1·0	45	− 15
445	‡Tiflis	41 43	44 48	404	964·3	1009·5	— 0·1	302·4	308·9	10th	293·2	290·0	14th	297·8	*297·3*	+0·1	135	+ 86
446	Astrakhan	46 21	48 2	— 20	1012·7	1010·4	— 0·2	302·6	306·5	10th	295·3	290·6	14th, 19th	299·0	*298·5*	+1·0	32	+ 19
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1012·7	1010·1	+ 0·3	302·6	309·0	10th	295·0	288·3	19th	298·8	*298·5*	−0·4	2	− 13
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1008·3	1007·8	— 0·2	308·4	313·5	12th	299·3	295·3	28th	303·8	*303·5*	+2·0	0	− 3
449	Kasalinsk	45 46	62 7	66·7	1001·9	1009·5	+ 2·3	..	..	..	291·5	287·3	19th	..	*299·4*	+1·0	0	− 7
450	Tashkent	41 20	69 18	478	951·5	1004·4	+ 0·6	307·9	312·8	14th	290·6	286·6	7th	299·2	*299·1*	−0·6	5	+ 1
451	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	913·2	1005·6	+ 0·7	300·6	306·0	25th, 31st	288·5	283·1	4th	294·6	*294·2*	−1·2	71	+ 36
464	ϕMoukden	41 48	123 23	43·8	998·3	1003·3	— 1·1	302·8	306·5	1st	292·8	287·6	10th	297·8	297·1	−0·6	112	− 47
465	Joshin	40 40	129 11	21·0	1002·7	1006·4	— 0·8	296·0	300·8	27th	290·5	286·9	1st	293·3	292·8	−0·2	48	− 62
466	Yuki	42 20	130 24	65·6	998·8	1006·5	— 1·2	294·4	304·4	29th	286·6	285·6	2nd	292·0	291·7	−0·8	143	+ 16
467	Vladivostok	43 7	131 53	128	992·2	1007·3	— 0·9	293·1	304·2	29th	288·1	284·8	7th	290·6	*290·1*	−1·5	41	− 36
468	Ochiai	47 20	142 47	27·4	1003·7	1007·0	— 2·5	292·9	300·4	29th, 30th	282·3	276·1	4th	287·6	287·4	−0·3	63	− 39
468*a*	Nemuro	43 20	145 35	26·7	1004·5	1007·7	— 2·4	291·4	302·8	30th	282·5	278·9	6th, 7th	287·0	286·8	−0·3	82	− 14
469	ϕSyana	45 14	147 53	39·3	1003·0	1007·7	— 2·8	288·8	299·9	30th	281·0	276·6	21st	284·9	284·9	−1·7	91	+ 15
		N.	E.															

Between Latitude 40° N. and 30° N. **JULY—ZONE 5 (Western Half).**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
508	35°—30° N. 145°—140° W.	††31 20	††142 6	§(23)	..	1023·7	0·0	..	..	Sea Temp. 293·0 | −0·6	..	..	..	..	293·0	0·0	..	..
511	San Francisco	37 48	122 26	47·2	1008·8	1014·5	+ 0·2	292·7	300·8	27th	285·3	283·6	1st	289·0	*288·4*	+1·9	0	− 1
512	San Luis Obispo	35 18	120 39	61·3	1007·5	1014·9	+ 0·4	297·4	303·0	28th	283·7	281·3	25th	290·6	*289·4*	+0·2	0	0
513	San Diego	32 43	117 10	26·5	1009·9	1012·8	0·0	295·3	298·0	23rd	289·7	287·4	16th	292·5	*291·9*	+0·2	0	− 2
514	Modena	37 48	113 54	1670	834·9	1011·5	+ 0·1	303·8	308·6	29th	286·6	282·4	10th	295·2	*294·7*	+0·8	21	− 16
515	Santa Fé	35 41	105 57	2138	791·6	1011·8	+ 0·4	300·8	305·8	30th	287·1	283·6	22nd	293·9	*293·4*	+0·7	52	− 15
516	Denver	39 45	105 0	1613	840·5	1014·5	+ 0·5	301·7	306·9	30th	289·3	285·8	1st	295·5	*295·0*	+0·2	70	+ 25
517	Abilene	32 23	99 40	530	953·9	1013·2	— 0·1	308·2	312·4	31st	295·4	289·7	1st	301·8	*301·4*	+0·8	6	− 44
518	Saint Louis	38 38	90 12	173	995·0	1014·9	— 0·2	304·7	308·0	15th	295·3	289·7	1st	300·0	*299·9*	+0·8	46	− 46
519	Mobile	30 41	88 2	17·4	1014·4	1016·6	0·0	304·0	307·4	23rd	295·1	290·8	20th	299·6	*298·7*	−0·3	126	− 53
520	Nashville	36 10	86 47	166	996·9	1016·2	0·0	304·3	307·4	15th	293·4	285·8	1st	298·8	*298·3*	−0·3	54	− 51
521	Charleston	32 47	79 56	14·6	1014·8	1016·6	— 0·4	303·3	308·6	7th	296·2	292·4	19th	299·7	*299·9*	−0·3	184	+ 4
522	Washington	38 54	77 3	34·1	1011·8	1015·6	+ 0·2	302·5	308·6	21st	292·1	285·2	1st	297·3	*297·2*	−0·4	125	+ 5
523																		
524	Bermuda	32 17	64 46	46·0	1015·8	1021·1	+ 0·8	301·9	304·0	29th	295·7	293·6	9th	298·8	*298·6*	−0·8	58	− 60
530	Santa Cruz (Flores)	39 27	31 9	40	1022·2	1027·2	+ 1·3	297·2	301·7	27th	292·2	289·3	5th	294·7	*294·7*	+0·1	26	− 29
531	ϕHorta	38 32	28 38	65	1018·8	1026·6	+ 1·6	297·7	301·6	29th	291·6	289·5	6th	294·7	294·2	−0·3	6	− 48
532	Ponta Delgada	37 44	25 40	22	1022·9	1025·5	+ 1·4	296·4	298·3	29th	291·4	288·5	6th	293·9	293·8	−0·1	..	..
532*a*	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	9	− 23
533	Madeira (Funchal)	32 38	16 55	25	‡1019·5	‡1022·4	+ 2·1	297·1	298·8	17th	292·7	291·2	11th	294·9	*294·9*	+0·7	2	− 1
535	Lisbon	38 43	9 9	95	1006·9	1018·0	+ 0·4	300·5	307·5	22nd	291·2	288·7	3rd	295·9	295·2	+1·1	0	− 4
536	Melilla	35 17	2 59	40	..	..	..	305·9	311·8	17th	295·0	292·8	1st	300·4	*301·1*	+1·4	0	− 1
536*a*	Gibraltar	36 6	5 21	16·2	..	1016·8	— 0·2	301·1	305·2	16th	292·6	288·6	2nd	296·8	*296·1*	0·0	0	− 1
537	Colomb-Béchar	31 36	2 4	769	929·4	1011·6	..	311·7	314·0	31st	297·3	292·0	20th	304·5	*304·6*	..	0	..
		N. ° ′	W. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

JULY—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1014·9	1017·6	— 0·4	303·7	309·8	14th	291·9	287·8	2nd	297·8	..	—0·4	3	— 8
538	Algiers (Bouzaréah)	36 47	3 2	344	977·3	1016·3	+ 0·6	301·9	311·4	15th	293·9	288·5	1st	297·9	*297·3*	+1·3	0	— 3
539 ϕ	Tunis	36 48	10 10	21	1013·6	1016·0	..	304·9	311·3	16th	292·3	288·3	2nd	298·6	*298·4*	0·0	0	— 1
539*a*	Malta	35 53	14 30	56·4	..	1015·9	+ 1·8	302·3	310·4	20th	295·5	290·2	6th	298·9	*298·1*	+0·2	0	— 7
540	Riposto	37 41	15 14	14·2	..	1018·0	+ 1·7	302·2	306·6	21st	293·9	291·2	1st	298·1	*298·1*	+0·2	0	— 7
541	Athens	37 58	23 43	107	1000·1	1012·2	+ 0·9	304·9	310·8	20th	294·6	290·7	8th	299·8	300·4	+0·5	0	— 0
542 ϕ	Alexandria	31 12	29 53	32·0	1006·0	1009·6	0·0	303·3	304·9	27th	295·7	294·6	15th	299·5	*298·8*	+0·1	0	
543	Nicosia (P.W.D.)	35 9	33 22	159	987·1	1004·8	+ 1·1	308·2	313·0	20th, 21st	293·3	290·2	1st	300·8	..	—0·4	0	— 1
544	Beirut	33 54	35 28	33·7	..	1006·8	— 0·8	303·4	304·5	21st	295·7	294·0	3rd	299·5	*299·4*	—0·1	0	..
545	Hinaidi	33 17	44 29	32·3	..	999·0	— 1·0	316·4	320·1	13th	298·1	294·8	20th	307·3	*307·5*	..	0	..
546	Lenkoran	38 46	48 52	— 20·0	1011·6	1009·3	0·0	..	306·2	11th	294·4	291·4	20th, 21st	..	*299·2*	+1·1	44	+ 23
547	Tehran	35 41	51 24	1220	..	..	..	306·6	308·3	18th	295·1	293·6	7th, 8th	300·8	*300·6*	—1·6	0	— 4
548	Meshed	36 16	59 35	946	874·0	..	..	306·4	310·0	15th	288·4	285·8	18th	297·4	..	—0·3	0	— 2
549	Seistan	31 0	61 30	610	..	..	..	311·0	314·0	15th	299·1	296·8	2nd, 17th	305·1	..	..	0	— 0
550	Quetta	30 11	67 3	1677	825·7	..	— 0·3	307·7	309·5	24th	290·6	285·7	4th	299·1	*298·9*	—0·1	0	— 10
551	Peshawar	34 2	71 37	339	960·3	997·1	— 0·4	313·9	317·4	7th	299·3	296·1	26th	306·6	*306·1*	+0·8	3	— 28
551*a*	Lahore	31 34	74 20	214	973·6	997·0	— 0·5	309·1	316·3	3rd, 6th	299·9	297·1	24th	304·5	*304·0*	—0·7	97	— 43
552	Simla	31 7	77 8	2204	776·4	..	— 0·3	293·1	296·9	1st	288·6	286·9	13th, 14th	290·8	*290·6*	—0·6	312	— 117
552*a*	Leh	34 10	77 42	3503	663·9	..	— 0·4	293·3	298·8	22nd	282·3	277·9	12th	287·8	*286·8*	—2·8	22	+ 10
559	Hankow	30 35	114 17	37·0	999·7	1003·9	0·0	305·4	309·5	27th	297·9	291·4	1st	301·7	*301·2*	—0·3	115	— 50
560 ϕ	Tientsin	39 10	117 10	5·0	1002·7	1003·2	— 0·9	305·8	311·4	1st	295·7	292·8	1st	300·7	*300·1*	+0·5	156	— 20
561 ϕ	Shanghai (Zi-ka-Wei)	31 12	121 26	7	..	1005·2	+ 0·5	303·8	309·6	31st	295·7	291·3	1st, 15th	299·7	298·9	—1·0	210	+ 60
562 ϕ	Jinsen (Chemulpho)	37 29	126 37	67·6	999·1	1007·0	+ 0·4	299·6	304·6	16th	293·3	290·1	2nd	296·4	295·9	—0·3	180	— 43
562*a*	Nagasaki	32 44	129 52	133	993·6	1008·7	+ 0·3	301·2	304·5	30th	294·5	291·0	7th	297·8	297·5	—1·0	577	+342
563	Kyoto	35 1	135 44	42·9	1003·9	1008·8	+ 0·3	302·7	307·0	26th	294·3	289·0	4th	298·5	297·8	—0·4	280	+ 88
564	Tokyo	35 41	139 46	5·8	1008·4	1009·1	— 0·2	300·8	307·6	25th	293·7	287·7	8th	297·3	297·0	—0·4	168	+ 33
565	Kanayama	37 53	140 46	24·6	1005·8	1008·7	— 0·9	299·5	307·0	31st	291·7	286·4	3rd	295·6	295·0	+0·1	87	— 67
566	Miyako	39 38	141 59	30·4	1004·5	1008·1	— 1·3	296·5	303·9	30th	289·1	283·4	8th	292·8	292·3	—0·6	240	+105

JULY—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		N.	W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1016·2	— 2·7	302·6	304·7	3rd	294·5	293·0	14th	298·6	*298·1*	..	110	..
605	Honolulu	21 19	157 52	11·6	1015·2	1016·5	0·0	300·8	301·9	..	296·1	294·7	..	298·4	*298·2*	0·0	6	— 27
614	La Paz	24 10	110 20	12	1009·4	1010·7	..	306·7	310·0	16th	297·5	293·8	8th	302·1	..	..	13	..
615	Chihuahua	28 38	106 4	1423	860·0	1008·6	..	302·8	308·0	1st	292·1	289·0	12th, 22nd	297·5	*298·6*	+0·3	92	— 3
616 ϕ	Leon	21 7	101 41	1809	824·3	1012·9	+ 1·7	300·1	303·2	16th	286·0	283·0	15th	293·1	*292·7*	—1·0	117	— 41
616*a* ϕ	Monterry	25 40	100 18	528	953·1	1011·4	+ 0·1	306·7	309·6	30th	294·5	292·1	4th	300·6	*300·1*	—0·2	25	— 31
617	Tulancingo	20 5	98 22	2181	791·5	..	..	296·1	299·7	11th	282·9	280·0	11th, 14th	289·5	*288·6*	—1·3	32	— 65
618	Galveston	29 18	94 50	16·5	1014·2	1016·2	+ 0·2	303·1	305·8	23rd	298·3	293·0	1st	300·7	*300·2*	—0·6	147	+ 52
618*a* ϕ	New Orleans	29 57	90 4	16·2	..	1016·2	+ 0·3	303·7	308·0	24th	295·9	291·9	18th	299·8	*299·2*	—1·1	221	+ 54
619	Merida, Yuc.	20 58	89 38	22	1012·8	1015·3	— 0·4	305·5	306·8	22nd	295·9	294·8	sev. dates	300·7	*300·0*	+0·2	90	— 18
620	Havana	23 8	82 21	24·3	..	1017·2	+ 0·5	304·7	306·8	17th	297·0	295·2	7th	300·8	*300·5*	+0·5	147	+ 34
620*a*	Key West	24 33	81 48	6·7	1016·0	1016·6	— 0·1	304·1	305·2	17th	298·3	293·6	1st	301·2	*300·9*	—0·4	73	— 14
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1017·9	+ 0·2	303·0	..	..	296·9	..	..	299·9	*300·0*	—1·3	124	— 24
622	Watling Island	24 6	74 26	33·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
633	Izaña	28 19	6 30	2367	773·6	..	..	294·1	298·0	17th	285·8	280·4	4th	289·9	*289·0*	—0·4	2	..
634	La Laguna	28 28	W 6 20	547	955·3	1017·8	+ 1·2	297·8	303·0	24th	287·8	284·8	5th	292·8	*292·1*	—0·6	0	— 3
641	Siwa	29 12	E 25 29	— 23	1014·8	1012·2	..	310·1	315·0	1st	292·8	287·0	10th	301·4	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	995·4	1008·6	+ 0·5	307·3	311·8	23rd	293·9	292·3	3rd	300·6	*300·4*	—0·5	0	..
643*a*	Aswan	24 2	32 53	99·6	995·2	1006·2	0·0	313·8	318·0	24th	298·7	296·2	6th, 20th	306·2	*305·8*	0·0	..	..
644	Tor	28 14	33 37	1·9	1005·1	1005·4	+ 0·5	306·7	311·1	22nd	296·6	293·3	27th	301·6	*301·0*	+0·4	0	..
647	Bushire	28 59	50 53	4·3	996·4	996·9	— 0·5	308·4	311·6	8th	302·6	299·1	1st	305·5	*304·8*	+0·5	0	0
648	Jask	25 44	57 47	4·0	997·6	998·0	— 0·2	309·1	313·8	1st	302·2	299·8	2nd	305·7	*305·0*	+0·1	0	0
649	Karachi	24 53	66 57	4·0	997·7	998·2	— 1·0	303·1	304·5	25th	299·2	297·9	4th	301·1	*300·4*	—1·1	8	— 67
650	Jacobabad	28 17	68 29	56·7	980·4	995·6	— 0·7	313·8	317·2	23rd	303·2	298·3	24th	308·5	*307·9*	—0·3	1	— 22
651	Jaipur	26 56	75 52	436	950·5	997·9	— 1·3	308·0	315·6	3rd	298·6	295·7	14th	303·3	*302·4*	+0·2	241	— 37
652	Nagpur	21 8	79 5	310	965·6	1000·1	— 1·5	303·6	310·3	1st	296·8	295·7	6th, 31st	300·2	*299·6*	—0·4	526	+175
653	Allahabad	25 25	81 51	94·2	987·7	997·6	— 0·9	306·4	310·7	12th	299·3	296·9	6th	302·9	*302·3*	—0·3	251	— 40
653*a*	Darjeeling	27 3	88 18	2265	771·7	..	— 0·7	292·2	293·5	25th	287·8	286·7	15th	290·0	*289·8*	+0·3	1091	+271
654	Calcutta	22 36	88 23	6·4	998·2	999·0	— 1·1	304·4	307·4	17th	299·0	297·9	29th	301·7	*301·6*	+0·3	415	+ 97
655	Gauhati	26 8	91 41	59·7	994·2	1000·9	— 1·1	305·2	307·1	29th	298·8	297·9	22nd	302·0	*301·4*	+0·1	172	— 120
655*m*	Cherrapunji	25 15	91 42	1313	862·6	..	— 0·2	295·0	298·2	21st	291·8	290·9	20th	293·4	*292·9*	+0·1	2151	— 351
655*a*	Akyab	20 11	92 56	6·1	1002·2	1003·0	— 0·7	302·0	304·8	20th	297·3	295·9	22nd, 31st	299·7	*299·8*	—0·5	2091	+669
656	Mandalay	21 59	96 0	76·2	995·2	1003·7	— 0·5	309·1	311·1	18th	299·3	298·3	21st, 26th	304·2	*303·6*	+0·9	15	— 69
656*a*	Tengyueh	25 2	98 33	1626	830·7	1000·6	+ 1·4	295·4	299·7	28th	290·2	288·6	19th	292·8	*292·1*	—0·3	237	— 130
657 ϕ	Phu Lien	20 48	106 38	11·6	988·4	1001·5	— 1·1	305·5	309·3	15th	299·0	295·9	31st	302·2	301·5	+0·4	134	— 108
658 ϕ	Moncay	21 31	107 51	9·0	1000·8	1001·9	— 0·9	305·2	309·6	23rd	298·5	295·7	29th, 30th	301·9	*301·6*	+0·2	463	+ 115
659 ϕ	Hongkong	22 18	114 10	33·2	..	1003·9	— 0·8	303·1	305·5	14th	299·0	296·4	21st	301·1	300·8	0·0	471	..
660 ϕ	Amoy	24 27	118 4	ca. 3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1005·8	1006·8	+ 1·2	306·8	308·6	8th, 10th	297·3	295·6	29th	302·0	301·5	+0·5	97	— 126
661*a*	Basco	20 28	121 59	18·7	..	1005·8	+ 0·6	303·7	305·8	22nd	298·8	293·6	25th	301·3	*301·4*	+0·2	84	— 109
662 ϕ	Naha	26 13	127 41	10·5	1007·9	1009·1	+ 1·5	304·9	307·6	14th	298·0	296·2	30th	301·5	301·2	+0·3	338	+ 150
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1012·9	1013·3	+ 2·1	303·9	305·6	25th	297·3	295·6	30th	300·6	300·4	+0·3	102	— 15
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

JULY—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 11	103 45	‡498	956·4	1011·8	..	304·2	306·2	sev. dates	293·3	290·4	2nd	298·7	*298·3*	+0·4	282	..
716	Morelia	19 42	101 7	1923	811·7	1011·9	..	295·3	298·0	1st	286·6	284·0	13th	290·9	*290·6*	—0·6	158	..
717	Mexico, Tacubaya	19 24	99 12	2309	776·0	..	— 0·1	296·8	298·6	15th	283·1	280·6	13th	289·9	288·5	—0·2	115	— 12
718 ϕ	Salina Cruz	16 12	95 12	56	1004·8	1011·2	— 1·4	304·0	305·3	2nd	296·9	293·3	11th	300·5	*300·8*	0·0	119	— 31
719 ϕ	San Salvador	13 42	89 12	682	937·2	1012·9	+ 0·7	303·9	305·0	9th, 17th	290·2	288·8	12th, 13th	297·1	*295·8*	—0·8	294	— 4
720	Belize	17 29	88 12	5·2	1012·6	1013·3	— 0·4	303·2	304·4	18th	294·1	291·4	24th, 25th	300·4	*300·0*	—0·1	68	— 63
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·7	+ 0·3	304·9	306·7	14th	295·3	293·5	23rd	300·1	*300·0*	+0·3	109	— 36
722	Port au Prince	18 33	72 20	37·4	1011·4	1015·7	+ 0·3	307·6	309·7	24th, 31st	296·3	294·3	4th, 17th	302·0	*301·3*	+0·5	26	— 43
724	Caracas	10 30	66 56	1042	900·4	1014·8	+ 0·4	298·4	300·9	11th	289·0	287·4	10th	293·7	*292·7*	—0·4	92	— 17
724*a*	Montserrat	16 41	62 9	36·6	1011·7	1015·9	+ 0·1	304·7	306·3	17th, 18th	297·1	294·7	3rd	300·9	*300·4*	+0·4	49	—105
725 ϕ	Grenada (Richmond Hill)	12 5	61 46	155	‡996·2	‡1014·1	+ 0·6	301·9	303·0	sev. dates	296·4	295·2	1, 14, 25	299·2	*298·5*	+0·1	215	— 33
725	Barbados	13 8	59 36	55·2	..	1014·7	+ 0·1	302·6	304·3	23rd	..	..	..	..	*299·5*	0·0	103	— 27
732	São Vicente, C. Verde Is.	16 54	25 4	11	1012·7	1013·9	— 0·2	299·3	300·7	24th	292·8	291·0	29th	296·0	*296·7*	—0·7	0	— 6
733	San Tiago, C. Verde Is.	14 54	23 31	34	1010·7	1014·6	0·0	300·4	302·4	5th	296·1	294·4	6th	298·2	*298·2*	—0·5	0	— 10
734	Bathurst	13 27	16 34	1·8	1013·7	1014·0	+ 0·7	303·2	304·7	5th, 15th	295·7	294·1	sev. dates	299·4	*299·6*	—0·2	698	+421
735	M'Carthy Island	13 33	14 45	1·1	..	..	..	306·0	310·8	3rd	296·9	294·1	7th	301·4	..	+0·6	113	— 95
736	Niénébalé	12 57	7 26	300	..	..	..	304·9	307·8	1st, 8th	294·6	292·6	15th	299·7	..	..	195	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	310·9	315·0	8th	297·4	293·3	25th	304·2	*303·3*	—1·5	33	— 54
737 ϕ	Sokoto	13 2	E 5 14	353	..	..	..	305·9	308·6	13th, 25th	294·9	292·4	2nd	300·4	*299·7*	—0·1	192	+ 32
738	Kaduna Capital	10 32	7 25	637	946·1	1017·3	+ 2·3	300·7	303·0	30th	291·8	289·7	2, 11, 17	296·3	*295·7*	0·0	187	— 76
739	Hadeija	12 40	10 5	?	..	..	..	305·6	308·6	20th, 23rd	294·5	292·4	2, 7, 11	300·1	*299·4*	—0·6	187	+ 51
740 ϕ	Maiduguri	11 47	13 11	361	..	..	..	305·9	308·6	30th	295·2	292·4	6th, 13th	300·6	*300·0*	—1·0	122	— 45
741	El Fasher	13 32	25 18	730	..	..	..	307·4	311·0	3rd	294·0	291·3	5th	300·7	*299·9*	..	156	..
743	El Obeid	13 11	30 14	569	946·7	1010·0	+ 0·8	306·2	309·1	17th	295·3	292·2	31st	300·8	*300·2*	+0·1	85	— 7
743*a* ϕ	Khartoum	15 37	32 33	390	965·1	1008·0	+ 0·2	310·2	314·5	16th	297·7	294·4	29th	303·9	*303·5*	—1·5	90	+ 43
744	Port Sudan	19 37	37 13	5·5	1003·9	1004·6	+ 0·2	313·8	319·2	23rd	301·4	297·8	30th	307·6	*306·4*	0·0	3	— 7
745	Berbera, Somaliland	10 22	45 2	9·5	1003·5	1004·6	— 0·4	315·5	319·1	15th	304·7	303·6	2nd, 19th	310·1	*309·4*	+0·7	0	— 2
746	Aden	12 45	45 3	28·7	1001·1	1004·3	+ 0·4	306·8	315·7	8th	300·4	297·8	19th	303·6	*303·5*	—0·5	3	+ 2
751	Bombay	18 54	72 49	11·3	1002·0	1003·3	— 1·4	301·8	304·3	6th	298·2	296·4	3rd	300·0	299·7	—0·4	1099	+483
752	Kodaikanal	10 14	77 28	2343	768·1	..	— 0·7	290·5	292·5	30th	284·0	282·7	17th	287·3	*286·4*	+0·1	56	— 71
752*a*	Bangalore	12 59	77 38	921	906·5	1007·0	— 0·7	299·4	302·6	1st	291·7	290·1	17th	295·5	*294·4*	—0·8	111	+ 5
753	Madras	13 4	80 14	6·7	1004·7	1005·5	— 0·5	310·2	313·1	31st	299·6	296·4	15th	304·9	*304·0*	+1·2	42	— 58
754	Vizagapatam	17 42	83 19	11·6	999·3	1000·7	— 1·4	305·6	310·0	18th	299·4	296·9	10th	302·5	*301·7*	+0·1	57	— 57
755	Port Blair	11 40	92 40	18·0	1005·4	1007·4	— 0·1	301·3	302·8	6th	297·3	295·8	8th, 13th	299·3	*298·5*	—1·1	637	+250
756	Rangoon	16 46	95 48	5·5	1006·2	1006·9	+ 0·2	302·1	304·4	1st	297·1	295·6	6th	299·6	*298·6*	—0·3	729	+185
757	Saigon (Cap St. Jacques)	10 20	107 5	180	986·8	1007·4	+ 0·7	302·1	304·4	12th, 14th	296·2	293·6	15th	299·2	*298·8*	—0·2	221	+ 2
758	Nhatrang	12 15	109 12	3·6	1004·6	1005·0	— 0·1	306·3	310·0	16th	296·9	295·1	9th, 10th	301·6	*301·0*	+0·1	44	— 4
759	Bolinao	16 23	119 53	7·1	..	1005·0	0·0	304·1	306·4	4th, 19th	295·1	292·0	1st	299·6	*299·6*	—0·3	438	—217
761	Vigan	17 34	120 23	12·2	..	1005·9	— 0·2	305·0	308·3	19th	297·3	295·3	25, 26, 27	301·1	300·7	+0·6	405	—279
761*a*	Manila	14 35	120 59	14·2	..	1007·3	+ 0·5	304·3	306·7	2nd	296·5	295·0	1st	300·4	299·6	—0·4	276	—163
762 ϕ	Ormoc	11 0	124 36	5·6	..	1007·1	— 0·1	304·6	306·7	5th	295·9	294·1	3rd	300·3	*299·7*	+0·2	231	— 57
765	Guam, Ladrone Is.	13 24	144 38	18·6	..	1007·9	+ 0·3	303·1	304·5	23rd	297·1	295·7	9th	300·1	*299·8*	—0·7	397	+ 19

Between Latitude 10° N. and 0°.

JULY—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total	Precipitation. Diff. from Normal
		N. ° ′	W. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
802	Fanning Island	3 54	159 23	5·3	1009·7	1010·3	..	303·8	306·1	31st	298·0	296·8	13th	300·9	*300·5*	0·0	388	+161
803	Colon	9 23	79 23	11·0	..	1010·3	— 0·6	303·2	304·7	14th	297·9	294·1	28th	300·6	*300·2*	+0·8	262	—144
803*a*	Bogota	4 36	74 5	2645	744·6	..	..	289·8	291·9	30th	282·4	280·7	10th	286·1	*285·8*	..	53	+ 1
804	Merida, Venez.	8 36	71 9	1641	‡841·4	..	— 0·8	298·3	300·5	8th	287·7	286·0	10th	293·0	*291·9*	+0·1	79	— 34
804*a*	Ciudad Bolivar	8 9	63 33	38	1007·9	1012·2	..	303·9	305·3	6th	296·4	295·5	14th, 29th	300·1	*299·6*	..	66	— 99
805 ϕ	El Peru, Guayanavieja	7 19	61 49	220	987·1	1012·1	+ 0·4	303·1	304·7	9th	292·7	289·8	2nd	297·9	*297·2*	—0·4	130	— 59
806	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1014·7	+ 1·2	302·8	303·8	31st	297·1	295·2	13th, 14th	299·9	*299·6*	—0·1	96	—155
806*a*	Paramaribo	5 49	55 9	3·7	‡1014·4	‡1014·8	+ 0·9	304·1	305·8	17th	295·2	293·8	5th	299·7	*299·1*	+1·0	155	— 70
807	Cayenne	4 56	52 21	0	..	..	..	306·1	308·0	24th	295·6	294·0	11th	300·9	*300·3*	+1·9	212	+ 36
831										Sea Temp.								
833	10—5° N. 30—25° W.	††7 30	††27 48	§(99–110)	..	1015·1	+ 1·3	..	..	298·9 | —0·5	..	..	..	..	298·5	—0·5	..	..
834	Konakri	9 31	13 43	16	..	..	..	300·4	303·8	2nd	295·5	293·4	1st	297·9	*297·5*	—0·7	1365	+ 60
835	Freetown, Sierra Leone	8 29	13 9	68·3	1006·1	1014·1	+ 1·4	301·3	304·1	3rd	295·4	294·1	9th	298·3	*297·4*	—0·6	883	— 21
837	Assuantsi	5 18	1 15	101	..	..	..	298·9	301·9	12th	294·1	290·8	10th	296·5	*296·1*	..	66	— 37
838 ϕ	Accra	5 33	W 0 12	27·0	1011·1	1014·2	..	300·2	301·9	3rd	295·1	293·6	26th	297·7	*297·3*	+0·4	54	+ 12
839 ϕ	Lagos	6 27	E 3 24	4·6	1013·1	1013·6	+ 0·4	300·2	302·2	16th	296·0	294·9	13th	298·1	*297·4*	—0·5	265	— 2
840	Zungeru	9 48	6 10	130	..	..	..	303·4	306·3	4th	294·7	293·0	7, 16, 24	299·1	*298·6*	+0·1	160	— 35
841 ϕ	Yola	9 12	12 30	359	..	..	..	302·4	304·7	25th, 26th	..	..	..	..	‡*297·6*	—1·0	199	+ 25
	Wau	7 42	28 3	440	..	..	..	303·6	307·0	23rd	293·4	292·0	18th, 20th	298·5	*297·4*	—0·6	350	+165
843	Malakal (Kodok)	9 35	31 37	394	967·2	1011·4	0·0	303·2	305·2	23rd, 26th	294·3	292·9	7th	298·8	‡*297·4*	+0·1	242	+ 81
843*a*	Mongalla	5 11	31 47	439	961·6	1010·3	+ 0·6	303·0	306·0	26th, 27th	..	..	..	..	..	..	129	— 3
844	Entebbe	0 5	32 29

JULY—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
924	ϕManaos	3 8	60 1	43·8	..	..	..	303·4	305·4	29th	295·6	294·0	30th	299·5	..	..	54	— 35
926	Taperinha	2 30	54 20	20·0	1010·9	1013·3	+ 0·2	303·4	305·6	25th	294·2	293·0	8, 9, 15	298·8	*297·9*	+0·3	147	+ 35
927	ϕTuryassu	1 43	45 26	9·1	1011·7	1012·8	— 0·4	303·8	307·2	27th	294·1	292·0	17th	299·0	*298·0*	—0·3	120	— 1
928	ϕBarra do Corda	5 30	45 16	81·0	1002·7	1012·2	— 0·4	304·8	306·9	27th	290·5	287·2	27th	297·6	*296·6*	—0·5	3	— 3
929	Quixeramobim	5 16	39 15	207	992·6	1016·1	+ 1·6	304·2	306·0	31st	294·0	292·0	17th	299·1	*298·9*	—0·5	24	— 65
930	ϕFernando Noronha	3 50	32 25	106	1002·6	1014·6	—0·1	299·8	300·7	25th	296·5	294·0	26th	298·2	*297·7*	+0·3	53	— 5
934	Ascension Island	7 56	W14 25	16·8	1014·9	1016·8	+ 0·1	301·6	302·4	16th, 28th	294·7	292·4	24th	298·1	*297·5*	—0·1	5	— 1
939	Loanda	8 49	E 13 13	51	..	1016·6	+ 0·9	294·2	296·7	24th	289·9	288·0	21st	292·1	291·6	—1·1	0	— 1
940	Brazzaville	4 17	15 16	321	982·0	1019·0	+ 3·7	299·2	306·0	26th	288·9	285·5	15th	294·1	*293·4*	—1·3	0	..
943	Masaka	0 21	31 47	?1280	..	..	..	304·6	305·2	sev. dates	..	..	..	..	*292·3*	+0·2	60	+ 30
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	293·0	298·6	26th	285·2	282·4	9th	289·1	..	..	15	+ 4
944*a*	Zanzibar	6 10	39 11	21·9	1015·9	1018·5	— 0·6	300·6	301·3	27th	296·3	294·6	31st	298·4	*297·7*	+0·6	61	+ 9
945	ϕLamu	2 16	40 50	3·0	..	..	..	301·1	301·9	15th, 20th	296·8	295·2	3, 4, 5	298·9	*298·5*	—0·3	87	— 54
947	Seychelles, Port Office	4 37	55 27	4·6	1012·5	1013·0	— 0·5	299·8	300·8	30th	297·8	296·8	9th	298·8	*298·1*	+0·4	12	..
957	ϕPadang	0 56	100 22	6·7	1009·4	1010·1	— 0·3	..	..	..	..	..	..	..	..	..	141	—144
958	Batavia	6 11	106 50	8·0	1009·1	1010·0	— 0·1	302·8	304·8	30th	295·7	294·5	13th, 28th	299·3	298·8	—0·1	59	+ 29
958*a*	Pontianak	0 1	109 20	2·6	1009·9	1010·1	+ 0·7	..	..	..	..	..	..	..	..	..	421	+ 98
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	57	+ 25
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	320	..
962	Amboina	3 42	128 10	4·2	1010·5	1010·9	+ 0·3	..	..	..	..	..	..	..	..	..	486	—100
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	147	— 3
965	Daru	9 4	143 13	7·6	..	1013·3	+ 1·9	296·6	..	..	294·1	..	..	295·3	*295·0*	—2·9	23	—92
966	ϕPort Moresby	9 29	147 9	39·0	..	1013·2	+ 1·7	298·4	..	..	295·4	..	..	296·9	*296·6*	—1·7	0	—25
967	Rabaul	4 9	152 12	20·7	..	1009·2	..	303·7	306·0	11th	295·3	293·7	8th	299·5	*299·0*	—0·4	85	— 70
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1010·0	1010·2	0·0	303·4	305·2	20th	297·4	295·2	30th	300·4	*300·2*	+0·3	130	— 33
970	Ocean Island	0 52	169 35	54·0	1001·4	1007·6	+ 0·2	303·8	305·2	16th	296·7	294·7	20th, 23rd	300·2	*299·6*	—0·5	141	..
		S.	E.															

JULY—ZONE 10.

Between Latitude 10° S. and 20° S.

		S.	W.															
1002	Apia, Samoa	13 48	171 46	2	..	1011·8	— 0·1	302·6	304·0	21st	295·5	294·2	7th, 8th	299·1	298·7	+0·6	101	+ 25
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	300·8	303·0	15, 20, 21	291·8	287·4	10th	296·3	*296·1*	+0·2	49	— 1
1021	ϕArequipa	16 22	71 33	2452	761·9	..	+ 0·7	293·6	296·9	23rd	282·3	280·3	16th	287·9	*287·8*	+0·8	0	— 1
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	282·6	280·1	3rd	..	*286·0*	..	7	— 3
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·7	..	..	289·8	293·6	10th	275·7	271·4	4th	282·7	*283·1*	..	7	— 14
1025	ϕCorumba	18 59	57 39	116	1002·4	1015·9	+ 0·9	297·4	305·0	8th	287·7	279·8	12th, 13th	292·6	*292·6*	—1·9	0	— 64
1026	ϕCuyaba	15 36	56 6	165	996·1	1015·3	+ 1·1	303·2	308·1	27th	286·9	280·3	13th	295·0	*293·6*	—2·4	0	— 2
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	918·8	1018·9	+ 0·1	297·7	302·8	23rd	285·5	281·6	27th	291·6	*292·1*	—0·6	12	— 64
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1011·1	1016·5	— 1·3	298·3	300·7	31st	294·7	292·4	24th	296·5	295·8	—0·7	254	+139
1030	ϕAracaju	10 55	37 3	6·1	1017·5	1018·3	+ 0·4	299·1	300·2	1st, 11th	293·4	290·0	21st	296·2	*296·4*	—1·2	288	— 20
1035	St. Helena	15 57	W 5 40	‡604	946·2	1015·8	— 1·1	291·2	293·0	14th	284·9	283·0	8th	288·1	*287·6*	+0·1	76	..
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	0	..
1041*a*	Elizabethville	11 39	27 28	1236	880·4	1015·6	— 0·5	300·6	302·6	27th	280·1	276·2	16th	290·3	..	+1·3	0	..
1042	Gwelo	19 28	29 48	1417	865·6	1021·4	— 0·5	295·9	298·1	29th	278·1	274·1	15th	287·0	..	+0·9	0	..
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡857·1	‡1018·0	— 1·2	295·7	298·1	26th	277·4	272·6	12th	286·6	*285·8*	+0·2	0	— 1
1044	Zomba	15 23	35 18	955	911·7	1018·4	— 1·0	296·4	299·7	27th, 28th	285·1	280·8	15th	290·7	*290·2*	+1·0	11	+ 2
1045	ϕAntananarivo	18 55	47 33	1375	868·8	1019·6	+ 0·1	293·8	296·4	29th	282·2	279·0	16th	288·0	287·9	+1·6	276	+ 98
1046	Tamatave	18 10	49 24	5	..	..	..	297·3	299·0	..	290·0	283·0	..	293·6	*293·1*	..	92	+ 25
1047	Vohémar	13 21	50 1	3	..	..	..	302·4	304·0	..	292·6	292·0	..	297·5	*296·9*	..	..	..
1048	Antalaha	14 58	50 19	3	1018·0	1018·3	..	..	..	..	..	..	..	..	..	..	..	—170
1055	Cocos Keeling Is.	12 5	96 53	4·6	1014·1	1014·6	+ 1·1	299·8	301·9	23rd	296·7	294·9	5th	298·3	*298·0*	—0·6	86	+ 17
1057	ϕChristmas Island	10 25	105 43	5·5	1008·4	1009·0	— 0·6	302·3	303·6	16, 24, 28	296·0	294·7	16, 18, 31	299·2	*298·4*	—0·3	134	— 72
1061	Kupang	10 10	123 34	45·1	1006·8	1012·2	+ 0·4	304·1	306·0	5th	294·3	290·3	30th	299·2	298·5	+0·4	0	— 3
1061*a*	ϕDerby	17 18	123 40	16·2	1014·8	1016·8	+ 1·6	301·7	304·8	5th, 14th	287·5	282·3	11th	294·6	..	—0·5	0	— 3
1062	ϕHall's Creek	18 13	127 46	373	976·3	1018·9	+ 2·3	298·6	302·6	5th	279·5	274·1	11th	289·1	*288·4*	—1·8	3	— 3
1063	Darwin	12 28	130 51	29·6	1010·6	1014·1	+ 1·6	303·0	305·5	1st	291·2	288·6	10th	297·1	*295·9*	—1·1	0	— 1
1064	Daly Waters	16 16	133 23	211	991·4	1015·7	+ 0·9	299·7	304·1	29th	282·5	278·0	11th	291·1	*290·4*	—2·5	0	— 1
1065	ϕMein	13 13	142 47	122	998·8	1012·8	+ 0·7	300·7	303·1	30th	287·5	281·4	12th	294·1	..	—2·2	0	— 1
1066	ϕGeorgetown, Queensland	18 22	143 32	302	982·3	1016·9	+ 1·2	300·1	302·7	31st	281·2	274·1	11th	290·7	..	—2·4	0	— 1
1066*a*	Willis Island	16 18	149 59	8·5	1014·3	1015·3	..	298·1	299·6	2nd, 4th	293·8	292·1	23rd	295·9	*295·5*	..	..	— 1
1067	Samarai	10 37	150 40	15·2	..	1013·3	+ 1·5	299·3	..	..	294·7	..	..	297·0	*296·8*	—1·2	133	— 6
1072	Suva, Fiji	18 8	178 26	6·1	1013·3	1014·0	— 1·5	298·7	302·7	13th	292·9	290·1	17th	295·8	*295·6*	—0·3	186	— 1
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112.
ϕ Change of normals *see* pages 112 and 113.

JULY—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	298·0	300·5	18th	291·5	287·4	13th	294·7	*294·5*	+0·4	112	+ 34
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1014·7	1018·0	+ 0·3	287·3	289·0	17th	282·0	278·8	10th	284·7	*284·7*	—0·1	38	+ 10
1123	Iquique	20 12	70 11	9	1015·8	1016·9	+ 0·7	290·5	292·2	22nd	285·8	284·3	6th, 14th	288·1	*288·7*	—0·2	0	— 1
1124	Calamarca	28 27	65 47	510	956·8	1017·0	+ 0·6	290·0	299·3	4th	275·5	270·0	11th	282·7	282·7	—2·3	0	— 4
	Salta	24 46	65 28	1178	884·1	1017·1	+ 0·7	290·3	302·9	15th	274·7	266·2	13th	282·5	282·1	—2·6	0	— 1
1125	Goya	29 9	59 15	26	1014·0	1017·2	+ 1·5	291·4	300·5	7th	280·6	273·0	13th	286·0	285·0	—2·1	1	— 43
1126	Asuncion	25 17	57 41	93	1006·7	1017·9	+ 1·5	298·1	306·4	4th	282·8	274·0	12th, 13th	290·4	289·0	—2·4	32	— 26
1127	Curityba	25 25	49 17	908	916·5	1020·4	— 1·0	292·2	297·6	8th	276·0	266·8	23rd	284·1	*283·6*	—1·6	61	— 4
1128	Rio de Janeiro	22 54	W43 10	33·0	1016·5	1020·4	+ 0·4	297·2	303·2	11th	287·2	284·3	13th	292·2	291·6	—1·4	‡20	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	292·4	295·7	31st	279·2	276·5	5th	285·8	*285·6*	—0·4	0	— 1
1140																		
1141	Kimberley	28 42	24 47	1202	887·1	1023·5	— 0·9	291·1	296·8	31st	275·7	269·7	29th	283·4	282·7	+0·1	10	+ 2
1141*a*	Johannesburg	26 11	28 4	1806	825·3	1023·5	— 1·4	287·8	291·3	16th, 31st	277·4	271·2	26th	282·6	*282·1*	—0·7	26	+ 18
1142	Bulawayo	20 9	28 35	1340	871·7	1019·7	— 1·3	295·4	297·6	5th, 27th	279·4	275·0	12th	287·4	*287·0*	+0·4	0	— 1
1143	Durban	29 52	31 3	15·2	1019·5	1021·3	— 2·6	295·5	303·1	18th	286·6	283·0	27th	291·0	*290·5*	+0·7	21	— 10
1144	Lourenço Marques	25 58	32 36	59	..	1020·3	— 2·5	298·3	305·0	25th	286·1	282·5	27th	292·2	291·7	+0·6	8	— 6
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	284·0	282·0	..	..	..	..	3	..
1146	Port Dauphin	25 2	46 58	25	..	1022·9	..	296·3	298·0	..	288·1	283·0	..	292·2	*291·7*	..	17	..
1147	Mauritius	20 6	57 33	55·2	1014·1	1020·6	+ 0·2	296·3	297·4	18th	289·8	287·7	17th	293·1	292·8	—0·1	21	— 42
1159	Onslow	21 43	114 57	4·3	1016·2	1017·1	+ 0·7	299·1	302·9	17th, 22nd	284·4	279·0	2nd	291·7	..	+0·8	10	— 14
1160	Cue	27 27	117 52	454	968·4	1021·5	+ 2·4	290·3	295·7	20th	280·1	275·8	1st	285·2	..	—0·4	64	+ 39
1161	ϕNullagine	21 53	120 5	386	974·8	1019·1	+ 1·4	296·1	301·2	28th	280·4	274·3	11th	288·3	..	—0·1	32	+ 19
1162	Laverton	28 40	122 23	466	968·2	1022·5	+ 2·2	290·9	295·1	11th	277·9	272·6	7th	284·4	*284·3*	0·0	11	— 6
1163	Alice Springs	23 38	133 37	587	953·7	1021·7	+ 1·0	291·2	298·3	15th	275·7	270·8	11th	283·4	*283·1*	—1·0	0	— 10
1164	ϕWilliam Creek	28 55	136 21	76·2	1012·9	1022·1	+ 1·5	291·6	298·6	13th	277·8	273·3	24th	284·7	*284·4*	+0·4	1	— 6
1165	Boulia	22 55	139 38	146	1002·5	1019·8	+ 2·3	293·7	299·7	15th	279·8	276·1	11th	286·7	*286·4*	—0·7	1	— 8
1166	Thargomindah	27 58	143 43	123	1005·5	1020·3	+ 0·9	289·6	295·3	15th	278·3	275·3	25th	283·9	*283·6*	—1·4	11	— 2
1167	Mitchell	26 32	147 52	336	980·2	1019·2	..	290·5	295·8	15th	274·6	270·2	22nd	282·5	..	—1·6	6	— 29
1167	ϕRockhampton	23 24	150 30	11·3	1016·2	1017·6	— 0·5	295·3	300·2	16th	281·4	277·2	19th	288·3	..	—1·3	9	— 29
1168	ϕBrisbane	27 28	153 2	41·8	1012·2	1017·1	— 1·2	293·2	297·0	15th, 16th	282·6	279·1	22nd	287·9	*287·4*	+0·2	52	— 6
1170	ϕNorfolk Island	29 4	167 59	15·2	1013·3	1015·2	— 1·8	291·0	293·0	3, 4, 10	286·6	283·6	25th	288·8	*288·4*	—0·4	198	+ 36
		S.	E.															

Between Latitude 30° S. and 40° S.

JULY—ZONE 12.

		S.	W.															
1201	Juan Fernandez	33 37	78 50	345	..	..	..	285·2	293·1	2nd	280·1	277·9	25th	282·7	*282·6*	..	241	..
1202	Punta Tumbes	36 37	73 6	120	1002·6	1017·3	— 0·1	285·3	293·0	3rd	278·6	275·0	19th, 28th	281·9	*282·3*	—1·5	58	— 26
1203	Punta Angeles, Valparaiso	33 1	71 38	41	1013·2	1018·2	+ 0·2	287·5	292·5	1st	280·6	276·5	30th	284·1	*283·7*	—1·3	224	+117
1204	Santiago	33 27	70 42	520	956·3	1018·5	0·0	285·8	295·3	3rd	274·9	270·0	11th	280·3	*279·5*	—1·3	98	+ 17
	Cordoba	31 25	64 12	423	967·6	1018·3	+ 1·3	289·0	302·7	4th	274·0	266·1	11th	281·5	280·6	—2·6	4	— 4
	Bahia Blanca	38 45	62 15	25	1015·4	1018·7	+ 2·2	283·1	290·8	5th	275·0	271·5	12th	279·1	278·8	—2·3	19	— 6
1205	Buenos Ayres (Chacarita)	34 36	58 22	25	1015·5	1018·6	— 0·1	285·4	296·5	7th	277·1	271·4	13th	281·3	281·2	—1·2	88	+ 32
1206	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1013·9	— 4·2	..	294·0	7th	..	274·6	23rd	..	*282·6*	—1·3	147	+ 78
1207	ϕPorto Alegre	30 2	W51 13	23·5	1014·2	1017·0	— 2·8	291·7	303·5	16th	280·9	272·3	13th	286·3	285·8	—0·8	151	+ 54
1208																		
1209	ϕCape Town	33 56	E 18 29	12·2	..	1021·2	— 0·1	289·7	297·2	8th	281·8	275·9	28th	285·7	*284·4*	+0·1	95	+ 3
1210	Danger Point	34 37	19 18	27·7	1016·5	1019·8	..	289·9	298·0	12th	282·9	278·0	29th, 30th	286·4	..	+0·5	318	+235
1211	Riversdale	34 6	21 16	‡?100	1008·5	1020·6	..	292·0	300·8	17th	277·9	271·9	29th	284·9	..	..	20	— 10
1212	East London	33 2	27 55	44·8	..	1019·5	— 1·5	293·8	304·1	18th	282·7	278·6	27th	288·2	..	+0·1	151	+126
1239	ϕPerth (Observatory)	31 57	115 51	60·0	1013·2	1020·6	+ 1·7	290·3	293·3	11th	282·2	277·6	7th	286·2	*286·3*	+0·3	116	— 51
1240	Katanning	33 42	117 35	310	982·1	1019·2	+ 1·3	287·3	290·8	10th	277·5	271·4	8th	282·4	..	—0·4	47	— 31
1241																		
1242	Coolgardie	30 57	121 10	423	971·8	1021·6	+ 2·1	289·3	292·6	11, 20, 24	278·2	273·7	7th	283·8	*283·7*	+0·1	18	— 5
1243	Eucla	31 45	128 58	4·6	1020·2	1020·7	+ 1·2	291·1	297·0	12th, 21st	279·8	275·2	7th	285·4	*285·2*	0·0	21	— 2
1244	Streaky Bay	32 48	134 13	13·1	1019·6	1021·1	+ 1·2	289·2	291·8	12th	282·1	277·7	26th	285·6	*285·4*	+1·0	67	+ 7
1245	Adelaide	34 56	138 35	42·7	1014·3	1019·5	— 0·7	288·1	292·9	28th	281·3	277·9	7th	284·7	*284·6*	+0·7	127	+ 60
1246	Melbourne	37 49	144 58	35·1	1011·9	1016·1	— 2·8	285·9	291·1	27th	279·9	275·8	11th	282·9	*282·7*	+0·6	72	+ 25
1247	Bourke	30 13	145 58	110	1008·5	1022·1	— 0·2	290·1	295·2	28th	278·9	273·0	25th	284·5	..	+0·4	14	— 9
1257	ϕSydney	33 51	151 13	42·1	1010·9	1016·0	— 2·2	289·3	293·2	14th	281·2	278·2	22nd	285·3	*284·5*	+0·8	207	+ 85
1258	ϕLord Howe Island	31 20	159 0	4·6	1014·6	1015·1	— 1·7	291·3	292·5	1st	285·3	280·2	6th	288·3	..	—0·6	157	— 48
1271	Auckland	36 50	174 50	38·1	..	1012·2	— 2·6	286·1	289·7	18th	280·1	275·0	7th	283·1	..	—0·8	71	— 57
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

Between Latitude 40° S. and 50° S.

JULY—ZONE 13.

		S.	W.															
1301	Chatham Island	43 57	176 31	45·7	..	1005·3	..	..	..	..	..	..	..	..	..	..	87	— 25
1321	Isla Guafo	43 34	74 45	140	997·2	1014·3	0·0	281·6	283·6	5th	277·9	275·1	16th	279·7	*279·8*	—1·1	76	— 32
1322	Punta Galera	40 1	73 44	40	1012·0	1016·9	+ 1·4	282·9	285·4	5th	278·7	275·0	11th	280·8	*281·2*	—1·0	325	+ 1
1323	Sarmiento	45 30	69 0	274	983·0	1015·5	+ 2·4	277·0	285·1	30th	268·4	256·4	16th	272·7	272·6	—3·6	19	— 2
1324	Puerta Madryn	42 49	W64 58	14	1014·9	1016·4	+ 2·7	283·0	292·0	5th	273·2	265·1	16th	278·1	277·9	—2·3	1	— 11
1325	Launceston	41 27	E147 10	10·1	1011·1	1012·3	— 2·3	286·3	292·0	30th	277·4	272·6	21st	281·9	*281·5*	+1·9	64	— 14
1326	ϕHobart	42 53	147 20	53·9	1005·2	1011·8	— 1·7	285·2	290·3	29th	278·4	274·7	19th	281·8	*281·4*	+1·2	34	— 21
1327																		
1328	Invercargill	46 25	168 21	3·7	..	..	..	281·2	284·7	26th	271·9	266·9	20th	276·5	..	—1·7	41	— 41
1329	Dunedin	45 52	170 31	91·4	..	1015·3	+ 3·4	281·4	284·1	4 days	276·2	271·9	6th, 7th	278·8	..	+0·1	54	— 22
1330	Christchurch	43 31	172 39	7·6	..	1015·8	+ 2·4	281·1	284·6	4th	274·9	269·5	2nd	278·0	..	—0·9	99	+ 28
1331	Wellington	41 16	174 46	3·0	..	1014·8	+ 1·6	284·1	288·0	4th, 17th	278·9	274·4	25th	281·5	..	—0·2	96	— 47
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
ϕ Change of normals *see* "Remarks," pages 113 and 114.

RÉSEAU MONDIAL

JULY—ZONE 14.

Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	1003·6	1010·5	+ 8·6	277·5	280·2	1st	273·5	269·2	31st	275·5	*276·2*	—1·7	126	—118
1422	Puerto de Punta Arenas	53 10	70 54	28	1006·7	1010·2	+ 7·0	275·3	279·6	17th	270·8	265·8	4th	273·1	*272·8*	—1·7	8	— 22
1423	Punta Dungeness	52 24	68 26	5	1008·0	1008·6	+ 6·4	277·4	281·2	23rd	271·2	268·0	15th	274·3	*273·6*	—1·9	..	..
1424	Año Nuevo	50 11	68 21	12	1010·1	1011·2	+ 4·6	274·2	278·6	29th	268·0	264·0	21st	271·1	271·5	—3·2	10	..
1424*a*	‡Año Nuevo	54 39	64 8	50	..	..	..	275·1	278·2	11th, 19th	272·1	266·5	15th	273·6	*273·4*	—1·8	126	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1007·2	..	274·5	278·6	6th, 23rd	271·8	266·3	15th, 16th	273·1	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	1002·8	1005·4	+ 2·8	276·2	278·6	6, 8, 26	272·1	267·4	15th, 31st	274·1	274·7	—0·9	..	..
1429	S. Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	999·8	1000·3	+ 2·3	273·0	280·1	24th, 25th	267·2	259·9	18th	270·1	*270·8*	—0·4	119	— 20

JULY—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44 S.	44 39 W.	7	996·4	997·3	+ 2·7	266·5	274·0	1st	259·6	240·2	17th	263·1	263·6	+1·2	32	+ 2
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—JULY 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	ESE	1·8	Calm 0	NE 2	SW 1	Calm 0	SE 2	..	..	SE 2	E 4	E 3	S 4
2	ESE	1·7	ENE 2	SW 1	Calm 0	Calm 0	SE 2	..	..	SE 4	E 2	E 1	NE 1
3	ESE	6·3	ESE 3	NE 1	SW 3	SW 2	SE 1	..	..	SE 4	ENE 1	Calm 0	NE 4
4	SE	6·3	SE 2	W 3	SSW 2	NW 1	Calm 0	..	..	SE 4	E 3	E 2	NE 2
5	SE	5·5	Calm 0	NE 1	Calm 0	Calm 0	SE 1	..	..	SE 4	E 1	E 1	NE 3
6	E	4·3	Calm 0	Calm 0	SW 2	N 2	SW 1	..	..	SE 4	E 1	E 1	N 2
7	ESE	4·4	NE 2	Calm 0	SW 1	W 1	Calm 0	..	..	SE 2	E 2	E 1	N 3
8	SE	4·7	Calm 0	ENE 1	SW 4	N 1	S 1	..	..	SE 2	SW 1	Calm 0	SE 5
9	SE	1·7	SE 4	SSW 1	SSW 2	N 1	SW 1	..	..	SE 2	E 1	E 1	E 3
10	SSE	7·1	E 4	SW 1	SW 1	Calm 0	S 1	..	..	SE 2	E 1	E 2	E 4
11	SE	10·5	E 3	Calm 0	SSW 2	S 2	S 1	..	..	SE 1	E 1	Calm 0	NE 2
12	ESE	10·8	ESE 2	Calm 0	Calm 0	E 1	SE 1	..	..	Calm 0	E 1	E 1	N 2
13	SE	9·8	SE 1	NW 1	S 3	NW 1	Calm 0	..	..	Calm 0	E 2	E 2	NW 3
14	SE	8·3	E 3	NE 1	SW 2	NW 1	Calm 0	..	..	SE 4	E 1	E 1	SW 3
15	SE	8·7	SE 1	ESE 1	NE 1	NW 1	Calm 0	..	..	SE 2	E 2	E 2	SSW 3
16	SE	4·8	ESE 2	NNW 1	SW 2	N 2	NW 1	..	..	SE 2	E 2	E 2	W 1
17	SE	5·4	SE 3	SW 1	SW 1	SW 2	Calm 0	..	..	SE 4	E 2	E 2	NE 3
18	SE	7·9	ESE 3	SSW 3	SW 3	SW 1	Calm 0	..	..	SE 4	E 1	E 2	NE 2
19	SE	7·7	SE 3	S 1	SSW 2	Calm 0	Calm 0	..	..	SE 4	ESE 2	ESE 2	E 2
20	SE	7·1	SE 3	Calm 0	SW 1	Calm 0	Calm 0	..	..	SE 2	ESE 2	ESE 2	NE 2
21	SE	7·4	ESE 1	NE 1	SW 1	NW 1	Calm 0	..	..	SE 2	SE 1	Calm 0	N 2
22	SE	7·4	SE 2	SW 1	SW 1	N 1	Calm 0	..	..	SE 2	SE 1	Calm 0	NW 3
23	SE	6·9	SE 3	SSW 2	SW 3	SW 1	Calm 0	..	..	SE 2	S 1	Calm 0	W 0
24	SE	3·8	SE 4	SW 2	SW 4	SW 1	Calm 0	..	..	SE 4	ENE 1	E 1	Calm 0
25	ESE	2·6	E 3	SSW 1	SW 2	Calm 0	Calm 0	..	..	SE 4	E 2	E 1	Calm 0
26	ESE	4·1	ESE 4	SSW 2	SW 1	Calm 0	Calm 0	..	..	SE 2	E 1	Calm 0	NE 3
27	ESE	3·7	SE 4	Calm 0	SW 1	NW 1	Calm 0	..	..	Calm 0	Calm 0	Calm 0	NNE 4
28	ESE	4·3	ESE 3	SW 1	SSE 1	Calm 0	S 2	..	..	Calm 0	Calm 0	Calm 0	E 3
29	SE	7·4	SE 5	NE 1	SW 1	NW 1	Calm 0	..	..	W 2	SE 2	S 1	E 7
30	SE	6·2	SE 3	SW 1	SW 1	NW 1	Calm 0	..	..	SE 2	ENE 1	Calm 0	NNE 5
31	SE	6·9	E 2	SW 1	SW 2	SE 1	SE 1	..	..	SE 2	SSW 3	SE 2	SE 1
										Calm 0	SE 3	SSE 2	
Mean	..	6·0	2·4	1·1	1·6	0·9	0·5	..		2·3	1·5	1·1	3·0
§Resultant	130° (94)	..	115° (78)	215° (50)		240° (12)		..		135° (78)	100° (68)		40° (42)
§Normal	139° (86)	6·9	‖118° (75)	261° (37)		240° (26)		‖‖ 92° (88)		132° (88)	‖100° (58)		98° (51)

‖ Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. *see* Introduction. § Direction and "Constancy." For explanation

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—JULY 1923.

‡‡*Arctic Sea.*—At Dickson Island the sea was completely free of ice on the 26th.

‡‡*Kara Sea.*—During the month much of the southern part became free of ice. There was a little ice in the eastern part of the Matotchkin Strait at the beginning but this disappeared about the middle of the month. The area covered was 158 × 10³ sq. km. as compared with a normal of 240 × 10³ sq. km.

‡‡*Barents Sea* was free of ice along the west coast of Novaya Zemlya and in the northern part to 77° N. In the western part a vast mass of scattered ice to 76° N. was decreasing slowly. By the 31st no ice was observed at Cape Flora in Frans Joseph Land nor between the islands to Clemens Markhams Bay. The area covered was 277 × 10³ sq. km., as compared with a normal of 519 × 10³ sq. km.

‡‡*Spitsbergen.*—The west coast was free of ice except for a mass to the west of South Cape, which disappeared before the 31st. On the north coast the sea was open almost to Hinlopen Strait. The sealer *Salangenfjord* worked through the Hinlopen Strait and north of North East Land to Cape Leigh Smith.

‡‡*Iceland* and Grimsey were free of ice except that on the 14th and 18th a belt of heavy polar ice was observed north of Huna Bay, and on the 21st a little ice at Cape North. Ice, however, was drifting in the sea to the north. The normal duration of average ice conditions is 4 days visible.

‡‡*Greenland Sea and Denmark Strait.*—At Angmagsalik there was scattered "Storis" everywhere at first, but from the 7th open water was visible in the offing with a land water 6 miles wide. After the 22nd the sea was almost free of ice but icebergs were numerous. The area covered was 858 × 10³ sq. km. as compared with a normal of 718 × 10³ sq. km.

‡‡*N. Atlantic and Labrador.*—Ten icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 26. The eastmost occurred in 45° W. The drift of icebergs was everywhere decreasing rapidly. In Belle Isle Strait there were no floes, but many icebergs. At Belle Isle the icebergs reached to 120 miles offshore.

‡‡*Davis Strait, Baffin Bay and Melville Bay.*—The little ice between Cape Farewell and Kagsimiut disappeared early in the month. Northwards the sea was free of ice to Upernivik though several icebergs were met with, as usual, along the coast. At Holstensborg an iceberg had stranded, which is rare. Unbroken ice occurred in Melville Bay to 15 miles offshore. From Cape York to North Star Bay there was scattered ice. On the 25th the ice drifted out of the inner Fjords near Ponds Inlet. After the 10th the sea was free of ice from Fullerton to Chesterfield Inlet. Outside Hudson Strait the scattered ice edge was met with in 60° W.

‡‡*Bering Sea and Polar Sea.*—Winter ice was met with in Anadyr Bay. Scattered ice occurred from Point Hope to Wainwright Inlet. By the 30th Point Barrow was rounded.

‡‡ *Isforholdene i de arktiske Have*, 1923, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, AUGUST 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF AUGUST 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. AUGUST—ZONE 1.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	..	..	282·5	295·8	17th	276·4	272·4	31st	279·4	..	+2·6	8	— 12
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124																		
125	Upernivik	72 47	56 7	19·2	1010·6	1012·9	+ 1·7	283·0	288·2	17th	275·7	272·0	9th	279·3	*279·3*	+1·4	0	— 28
133																		
134	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135	Jan Mayen	70 59	W 8 18	23·1	1011·2	1014·0	..	..	284·3	1st	274·8	271·8	21st	..	*277·1*	..	23	..
139	ϕSpitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1010·3	1011·7	— 0·5	..	286·2	2nd	277·2	273·6	23rd	..	279·0	+1·5	11	— 11
140	Björnöen	74 28	19 15	40·5	1005·3	1010·3	..	..	279·8	5th	274·9	273·1	17th	..	*276·2*	..	9	..
141	Gjesvaer	71 6	25 22	6·5	1007·4	1008·2	— 2·3	..	289·1	10th	270·9	270·8	28th	..	*281·8*	—1·2	64	+ 5
142	Mehavn	71 1	27 47	4·6	1007·3	1008·3	— 2·2	..	288·4	29th	278·9	276·3	11th	..	*281·0*	—1·7	36	— 16
143	Vardö	70 22	31 8	6·8	1006·7	1007·5	— 4·2	..	285·8	29th	279·3	275·8	28th	..	*281·0*	—0·8	46	— 8
147	Malye Karmakouly	72 23	52 43	14·8	1002·0	1003·8	— 8·5	283·6	291·8	8th	278·6	275·2	12th	281·1	*281·2*	+2·0	34	— 9
148	Waigatz	70 24	58 47	11·2	1002·4	1003·7	— 6·9	282·1	290·4	8th	277·1	271·3	5th	279·6	*279·5*	..	46	..
153	Dickson	73 30 N.	80 23 E.	13	1002·4	1004·0	..	284·9	291·0	..	279·8	275·6	20th	282·4	..	..	26	..

Between Latitude 70° N. and 60° N. AUGUST—ZONE 2.

203	Nome	64 30	165 24	6·7	..	1011·2	+ 2·2	288·9	293·6	1st, 5th	282·7	279·1	26th	285·8	*285·8*	+2·9	75	— 5
204	Candle	65 55	161 57	2·4	..	..	..	293·2	298·6	6th	280·2	269·7	31st	286·7	..	+3·4	..	..
205	Tanana	65 10	152 6	67·1	..	1012·5	+ 3·4	297·1	302·4	21, 22, 23	279·9	274·1	16th	288·5	..	+3·5	11	— 43
206	Rampart	65 30	150 15	122	..	..	..	297·2	303·0	22nd	280·9	276·3	31st	289·1	..	+3·0	12	— 25
207																		
208	Valdez	61 7	146 16	8·2	..	..	..	?291·4	..	..	?281·7	..	..	?286·6	..	+2·8	51	— 87
209	ϕEagle	64 46	141 12	254	..	1012·5	+ 2·8	297·6	303·6	4th	279·3	273·0	30th	288·4	..	+3·6	19	— 30
210	ϕDawson	64 4	139 29	324	974·2	1012·2	+ 1·7	297·4	302·4	4th, 20th	278·6	275·8	1, 23, 26	288·0	..	+2·6	10	— 26
211	Carcross	60 11	134 34	662	..	..	..	297·8	304·7	..	275·2	1st	..	..	..	..	30	+ 9
212	Fort Good Hope	66 25	128 53	65·2	1008·8	1016·7	..	294·8	301·9	18th	275·9	266·9	27th	285·3	..	..	2	— 16
	Fort Simpson	61 52	121 35	129	998·3	1013·8	+ 2·0	294·1	303·6	22nd, 23rd	279·9	273·6	3rd	287·0	..	+0·4	27	— 4
213	Hay River	60 51	115 20	161	994·2	1013·5	+ 3·7	290·8	299·7	11th, 23rd	280·2	274·7	7th, 15th	285·5	..	—1·4	21	— 16
225																		
226	Jacobshavn	69 13	51 2	12·6	1010·3	1011·8	+ 1·4	282·8	287·9	31st	277·3	273·3	22nd	280·1	*280·1*	+0·5	6	— 30
227	Godthaab	64 11	51 43	20·4	1008·2	1010·7	+ 1·3	285·3	289·7	1st	276·5	274·1	19th	280·9	*279·0*	—0·2	7	— 72
229	Ivigtut	61 12	48 10	13·0	1009·2	1010·8	+ 1·0	286·4	291·8	15th	277·7	275·4	2nd	282·1	*282·1*	+0·6	12	— 84
	Angmagsalik	65 37	37 33	31·7	1009·8	1013·7	+ 1·4	284·7	290·8	2nd	275·4	271·2	29th, 30th	280·1	*279·0*	+0·2	7	— 53
231																		
232	Stykkisholm	65 5	22 46	25	1005·6	1008·7	— 1·1	285·4	289·8	7th	279·0	275·1	28th	282·2	*281·6*	—0·6	31	— 10
233	Vestmanno	63 24	20 17	132	990·0	1006·0	— 3·0	286·6	292·2	9th	280·1	275·1	30th	283·3	*282·2*	—0·3	49	— 29
234	Grimsey	66 33	18 1	22·0	1006·8	1009·5	— 1·2	282·4	290·4	12th	277·8	274·9	29th	280·1	*279·6*	—0·2	18	— 14
235	Teigarhorn (Berufjord)	64 41	14 22	18·0	1006·0	1008·2	— 1·3	285·0	292·4	14th	279·2	274·2	31st	282·1	*281·5*	+0·1	101	+ 21
236	ϕThorshavn	62 3	6 45	26·3	1002·2	1005·4	— 4·5	285·5	288·3	7th	280·9	276·6	25th	283·2	*282·9*	—0·3	104	+ 12
	Lerwick	60 9	W 1 11	18·0	..	1005·8	— 4·0	287·1	290·2	6th	282·8	280·2	25th	284·9	*284·7*	+0·4	106	+ 30
237																		
238	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1000·3	1005·6	— 5·1	288·5	292·7	1st	283·2	280·0	30th	285·9	*285·4*	—1·3	220	+ 61
239	Aalesund	62 28	6 10	6·3	1004·6	1005·4	— 5·0	..	292·7	22nd	284·0	281·4	26th	..	*285·8*	0·0	108	— 4
240	Trondhjem	63 26	10 25	39·5	1000·8	1005·6	— 4·9	289·1	294·9	22nd	282·2	277·2	21st	285·7	*285·2*	—0·8	72	— 3
241	Bodö	67 17	14 24	22·3	1003·3	1006·0	— 3·9	..	292·6	4th	281·3	277·0	22nd	..	*284·3*	—0·8	37	— 40
242	Haparanda	65 50	24 9	9·2	1006·2	1007·3	— 2·9	288·0	293·0	5th	279·9	275·5	14th, 15th	283·9	*284·1*	—1·7	67	+ 13
242*a*	ϕHelsingfors	60 10	24 57	11·7	1005·2	1006·6	— 3·6	290·5	294·6	9th	283·8	278·1	13th	287·1	*286·8*	—1·5	122	+ 48
248	Kuopio	62 54	27 40	90·3	995·2	1006·0	— 5·5	288·4	291·6	25th	281·6	277·5	22nd	285·0	*285·4*	—1·4	52	— 21
243																		
244	Kola	68 53	33 1	6·7	1006·6	1007·4	— 3·1	284·4	290·5	24th	279·1	273·8	28th	281·8	*281·8*	—2·0	59	+ 15
245	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
246	Arkhangelsk	64 34	40 31	6·3	1004·2	1005·0	— 6·0	286·2	296·7	30th	280·2	275·7	21st	283·2	*282·8*	—3·7	93	+ 31
247	ϕMezen	65 50	44 16	14·9	1001·9	1003·7	— 6·5	286·0	298·0	30th	279·8	274·1	23rd	282·9	*282·6*	—1·6	53	+ 2
248	Oust-Tsylma	65 25	52 18	? 68	..	..	..	288·6	297·5	31st	281·7	275·7	21st	285·2	*284·7*	+0·3	59	— 1
	ϕTcherdyn	60 24	56 31	?177	984·2	1005·2	— 5·4	291·0	297·6	30th	283·4	278·7	24th	287·2	*286·7*	—0·4	100	+ 29
249																		
250	Berezov	63 56	65 4	39·5	1002·7	1007·4	— 2·2	291·5	297·0	6th	283·3	278·7	21st	287·4	*287·4*	+1·6	33	— 27
251	Obdorsk	66 31	66 35	23·7	1002·2	1005·0	— 4·9	290·2	296·0	6th	283·6	278·1	22nd	286·9	*286·7*	+2·7	86	+ 36
252	ϕSourgout	61 15	73 24	? 40	1002·3	1007·0	— 1·5	..	296·8	4th	283·4	274·3	26th	..	*288·3*	+1·5	83	+ 1
253																		
254	Doudinka	69 23	86 4	20·0	1003·1	1005·5	— 2·0	..	299·6	7th	283·1	274·8	26th	..	*287·4*	+3·1	59	+ 9
	Touroukhansk	65 47	87 57	45·0	1001·9	1007·2	— 2·7	..	297·8	3rd	283·9	274·1	29th	..	*287·9*	+2·6	117	+ 61
261																		
262	Viliouisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
263	Iakoutsk	62 1	129 43	108	992·0	1004·8	— 2·7	..	298·4	7th	281·4	276·3	24th	..	*286·3*	—1·6	89	+ 40
	Verkholansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..		..	..		..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1008·8	+ 0·7	283·4	285·8	1st, 27th	279·7	277·4	7th, 11th	281·6	..	+0·5	101	+ 15
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1010·5	— 1·7	287·9	296·3	16th, 17th	281·8	279·7	sev. dates	284·9	*284·3*	+1·1	72	— 10
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	292·4	300·2	25th	284·0	278·0	13th	288·2	..	+2·6	89	— 15
306	Kodiak (Radio)	57 46	152 22	6·1	..	1011·8	+ 0·8	289·4	293·6	sev. dates Sea Temp.	283·2	279·7	3rd	286·3	*285·9*	+1·2	60	— 30
307	55°—50°N. 150°—145°W.	††51 40	††147 55	§(18)	..	1014·2	— 4·1	..	..	..	286·3 | +1·1	..	..	..	286·3	+1·1	..	..
309	Sitka	57 3	135 19	27·4	..	1014·5	— 1·3	293·7	300·2	20th, 22nd	284·6	280·8	6, 8, 9	289·1	*288·8*	+3·0	134	— 47
310	Prince Rupert	54 18	130 18	51·8	1010·6	1016·8	— 0·4	293·0	297·4	16th	283·6	278·6	6th	288·3	*288·4*	+1·5	186	+ 57
311	Barkerville	53 2	121 35	1274	871·9	1013·8	+ 1·1	291·3	296·9	17th, 18th	279·1	272·4	1st	285·2	*284·7*	+0·3	69	+ 1
312	Kamloops	50 41	120 29	385	973·3	1017·6	+ 0·9	300·7	306·9	16th	286·5	281·6	2nd	293·6	*293·5*	+0·6	27	— 33
313	Calgary	51 2	114 2	1045	897·5	1014·5	+ 3·4	296·9	304·1	31st	279·7	275·2	2nd	288·3	*287·7*	+0·1	31	— 24
314	Fort Chipewyan	58 42	111 10	218	987·9	1013·9	+ 2·8	291·3	299·1	24th	279·7	271·9	28th, 29th	285·5	*286·1*	−2·0	24	+ 17
315	Prince Albert	53 10	105 38	442	963·4	1015·1	+ 3·5	294·1	298·6	25th	281·3	277·4	3rd	287·7	*287·3*	−0·6	74	+ 40
316	Qu'Appelle	50 30	103 47	645	939·7	1013·9	+ 2·5	294·7	301·9	12th, 30th	281·3	276·9	4, 21, 28	288·0	*287·5*	−1·4	41	+ 10
317	Minnedosa	50 15	99 50	515	954·8	1014·8	+ 2·1	293·6	300·4	30th	280·4	272·9	24th	287·0	*286·8*	−1·9	25	+ 14?
318	ϕPort Nelson	57 0	92 51	14·9	1007·2	1009·0	— 1·6	288·2	299·1	12th	277·2	271·3	29, 30, 31	282·7	..	−2·3	232	+ 69
319	Fort Hope	51 33	87 49	‡260	978·3	1009·2	— 3·6	290·2	296·3	3rd	278·6	271·3	27th	284·4	*284·4*	−2·6	128	+ 2
320	ϕMoose Factory	51 14	80 30	9·1	1010·2	1011·3	— 0·7	290·3	297·4	5th	279·4	273·0	23rd	284·9	..	−2·9	76	+ 31
321	Fort George	53 50	79 5	97·5	..	..	..	285·4	291·9	3rd	278·7	273·0	30th	282·1	*282·2*	..	6	+ 31
322	Mistassini Post	50 15	73 55	383	..	..	..	290·3	298·0	1st	278·3	270·8	15th	284·3	..	−2·5	126	+ 22
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	289·2	294·1	5th, 11th	281·7	273·6	25th	285·4	..	−0·9	109	+ 22
326	ϕBelle Isle	51 53	55 23	130	992·3	..	..	282·4	286·9	7th, 19th Sea Temp.	277·9	276·3	2nd, 13th	280·2	*280·1*	−3·5	121	— 31
331	55°—50°N 30°—25°W.	††52 58	††27 42	§(36)	..	1007·6	..	..	..	286·2 |−0·9	..	..	..	..	286·2	..	..	..
333	53°—48°N. 20°—15°W.	††50 41	††17 28	§(34)	..	1014·6	..	..	..	288·6 |−0·7	..	..	..	..	288·3	..	..	..
333a	62°—57°N. 20°—15°W.	††59 49	††17 9	§(48)	..	..	..	..	..	284·8 |−0·7	..	..	..	..	284·7	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1012·5	— 1·7	289·8	292·4	11th	285·6	281·9	29th	287·7	287·7	−0·2	193	+ 70
335	Aberdeen	57 10	W 2 6	26·8	..	1006·8	— 4·6	289·2	295·8	13th	283·1	278·6	29th	286·2	286·0	−0·1	106	+ 31
336	ϕGreenwich	51 28	0 0	46·3	..	1014·0	— 1·0	296·4	305·8	9th	284·7	279·7	31st	290·5	289·8	+0·6	48	— 27
337	Uccle	50 48	E 4 22	100	1003·2	1015·0	— 0·6	296·2	305·2	9th	285·2	279·4	31st	290·7	289·4	+0·5	54	— 25
338	De Bilt	52 6	5 11	3·0	1013·4	1013·8	— 1·2	294·0	304·0	10th	284·3	278·9	5th	289·1	288·8	−0·8	102	+ 15
338a	Hamburg	53 33	9 58	40·3	1007·9	1012·7	— 1·0	291·5	297·3	9th	285·2	282·3	26th	288·3	*288·1*	−1·7	115	+ 6
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1008·7	1009·3	— 3·6	291·2	295·0	3rd	284·5	279·9	21st	287·9	*287·5*	−0·5	129	+ 71
340	Potsdam	52 23	13 4	84·9	1003·8	1013·9	— 0·8	294·8	301·6	10th	284·5	281·6	6th, 13th	289·7	288·9	−0·8	41	+ 7
340a	Uppsala	59 51	17 38	24	1003·5	1006·4	— 4·1	290·9	296·7	6th	282·4	277·0	30th	286·7	286·0	−0·8	143	+ 71
341	Warsaw	52 13	21 3	89·9	1003·1	1013·9	— 1·2	294·5	301·5	10th, 25th	284·0	279·0	30th	289·3	289·0	..	30	+ 4
342	Tartu (Ülikooli)	58 23	26 43	74·5	998·5	1007·4	— 4·1	290·7	294·8	1st	282·7	278·6	14th	286·7	286·3	−1·9	117	+ 11
343	Petrograd	59 56	30 16	4·8	1005·8	1006·4	— 4·5	289·8	294·9	28th	282·8	279·5	13th	286·3	*286·2*	−2·4	82	+ 1
344	Kiiv	50 27	30 30	183	992·0	1013·6	— 0·3	295·9	303·4	1st	284·7	280·8	18th	290·3	*289·4*	−1·8	56	+ 15
344a	Moscow	55 50	37 33	167	998·2	1008·0	— 4·4	290·9	300·3	29th	282·9	279·2	8th	286·9	*286·6*	−2·2	68	+ 27
345	Saratov	51 33	45 57	122	994·2	1008·5	— 3·2	297·9	304·2	2nd	285·2	280·5	16th	291·6	*291·2*	−1·3	14	+ 4
346	Kazan	55 47	49 8	79·9	997·9	1007·4	— 4·1	294·1	300·5	2nd	284·9	279·7	16th	289·5	*288·7*	−1·7	80	+ 6
347	Orenburg	51 45	55 6	109	995·5	1008·2	— 4·2	299·6	309·2	23rd	285·1	277·8	17th	292·4	*292·5*	−0·2	43	+ 6
348	Perm	58 1	56 16	163	987·9	1007·2	— 3·6	292·3	298·5	3rd	284·0	280·6	17th	288·2	*287·5*	−0·6	69	— 11
349	Sverdlovsk	56 50	60 38	281	974·4	1007·3	— 2·4	293·4	306·0	23rd	283·2	279·8	20th, 21st	288·3	*288·1*	+0·4	48	— 24
350	Tobolsk	58 12	68 14	108	996·0	1008·7	— 1·3	294·7	301·4	22nd	284·2	278·6	25th	289·4	*289·3*	+1·2	59	— 2
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	302·2	309·5	15th	284·7	278·5	18th	293·5	*294·4*	+3·4	2	— 33
352	Omsk	55 1	73 19	108	997·1	1009·7	+ 0·5	298·9	310·4	16th	284·6	278·4	26th	291·8	*291·5*	+2·2	8	— 27
353	Barnaoul	53 20	83 48	162	991·4	1010·3	+ 0·4	299·1	306·4	9th	284·3	275·4	27th	291·7	*292·0*	+2·2	14	— 10
354	Tomsk	56 30	84 58	122	994·7	1009·0	— 0·3	..	304·4	8th	284·7	275·1	30th	..	*290·5*	+2·4	12	— 10
355	ϕMinousinsk	53 43	91 41	248	980·2	1009·1	— 0·4	..	304·9	10th	285·7	277·9	30th	..	*292·1*	+1·8	114	+ 55
356	Eniseisk	58 27	92 10	77·6	997·9	1007·2	— 1·6	..	304·0	6th	283·9	277·9	23rd	..	*289·8*	+1·2	65	+ 17
357	Irkutsk	52 16	104 19	467	954·0	1007·8	— 1·9	295·7	303·9	11th	282·7	279·3	30th	289·2	288·8	+1·0	71	+ 31
358	Kirensk	57 47	108 7	263	976·3	1008·7	+ 0·2	..	302·8	7th	283·4	277·5	31st	..	*288·9*	+0·6	71	+ 31
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	961·2	1005·2	— 1·8	295·7	302·0	12th	278·4	272·3	25th	287·0	*287·9*	−0·4	80	— 43
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	988·4	1004·8	— 2·0	298·8	303·6	20th, 24th	287·2	281·7	4th	293·0	*292·9*	+0·9	53	— 77
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	995·4	1005·9	— 3·8	286·7	294·5	21st	280·8	278·5	30th	283·8	*283·3*	−1·5	60	— 24
369																		
		° ′ N.	° ′ E.	metres	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1008·8	1017·2	+ 0·3	293·4	300·4	16th	284·7	282·5	2nd	289·1	288·3	+0·7	20	+ 4
412	Portland, Oregon	45 32	122 41	46·6	1011·1	1016·6	0·0	300·5	308·0	28th	288·3	284·7	2nd	294·4	*294·1*	+2·3	7	— 9
413	Macleod	49 44	113 24	953	..	..	..	..	..	..	296·8	303·6	31st	282·5	276·9	2nd	289·7	*290·0*	−0·2	37	— 4
414	Helena	46 34	112 4	1253	875·9	1015·6	+ 1·0	298·2	306·9	12th	284·3	278·0	4th	291·2	*291·3*	−1·1	42	+ 24
414a	Salt Lake City	40 46	111 54	1329	868·1	1013·2	+ 0·7	302·2	305·2	9th	289·3	284·1	30th	295·8	*296·0*	−1·3	61	+ 40
415	Cheyenne	41 8	104 48	1856	817·1	1015·2	+ 0·5	296·8	301·9	13th	284·4	278·6	27th	290·6	*290·6*	−1·3	52	+ 14
415a	North Platte	41 8	100 45	860	919·0	1016·6	+ 1·4	300·6	305·8	20th	287·8	281·3	22nd	294·2	*294·0*	−1·2	110	+ 59
417	Bismarck	46 47	100 38	510	957·8	1017·6	+ 2·9	298·0	304·7	30th	285·1	279·1	22nd	291·6	*291·2*	−1·2	16	— 33
418	Winnipeg	49 53	97 7	232	987·1	1014·4	+ 1·3	296·9	305·8	30th	283·0	276·3	24th	289·9	*289·3*	−0·8	17	— 38
	Duluth	46 47	92 6	345	974·8	1015·6	+ 0·7	294·4	301·9	30th	283·1	276·3	24th	288·7	*289·0*	−0·7	45	— 37
419	Port Arthur	48 27	89 12	196	991·1	1014·4	— 0·3	292·4	296·9	1st, 2nd	282·4	276·9	22nd	287·4	*287·4*	−1·1	87	+ 15
420	Chicago	41 53	87 37	251	986·2	1015·6	— 0·2	297·9	304·7	14th	291·3	285·2	22nd	294·6	*294·7*	−1·1	197	+120
422	Toronto	43 40	79 24	116	1001·0	1014·7	— 0·7	297·8	305·4	7th	285·9	278·9	23rd	291·8	291·4	−0·8	91	+ 20
423	ϕNew York (Central Park)	40 47	73 58	47·4	1009·8	1015·3	— 1·2	300·8	306·3	5th	290·3	283·6	23rd	295·6	294·9	−1·0	31	— 79
424	ϕSt. John, N.B.	45 17	66 4	36·2	1008·7	1013·0	— 2·4	291·9	299·3	5th	282·9	278·4	24th	287·4	286·9	−1·5	103	+ 5
424a	S.W. Point, Anticosti	49 24	63 33	9·1	1008·2	1009·3	— 2·6	286·3	291·9	4th	281·4	276·3	10th	283·9	*284·2*	−2·6	124	+ 36
425	Sable Island (Main Station)	43 57	60 6	7·6	1014·1	1015·0	— 1·6	290·8	293·6	22nd	285·8	283·0	9th	288·3	*288·0*	−1·8	29	— 58
425	Port aux Basques	47 35	59 10	9·1	1010·8	1011·9	— 2·9	287·8	296·6	4th	281·6	275·8	25th	284·7	*284·7*	−2·6	154	+ 37
426	St. John's, Newfoundland	47 34	52 42	48·8	1006·4	1012·3	— 2·2	290·2	294·1	4, 14, 30 Sea Temp.	281·9	279·7	3rd, 8th	286·1	*285·7*	−2·3	62	— 32
430	50°—45° N. 35°—30° W.	††46 25	††32 30	§(14)	..	1023·9	..	..	..	291·1 | +1·0	..	..	..	..	..	..	..	..
435	Madrid	40 24	3 41	667	941·1	1015·2	+ 0·7	305·5	308·7	8th, 9th	291·6	284·9	31st	298·5	*297·1*	+2·0	2	— 5
436	Nantes	47 15	W 1 34	36·5	1013·2	1017·8	+ 0·6	297·5	308·0	8th	285·0	279·1	31st	291·3	291·3	+0·8	16	— 31
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1011·1	1017·4	+ 0·8	298·0	308·4	9th	284·9	279·0	31st	291·5	291·5	+0·8	13	— 37
438a	Marseille	43 18	5 23	75	..	1014·4	— 1·0	303·5	308·4	4th, 6th	289·6	284·4	26th	296·5	*296·0*	+1·6	3	— 18
439	Zürich	47 23	8 33	493	960·6	1017·3	+ 0·1	299·1	308·7	10th	285·1	280·5	29th	292·1	291·1	+0·7	64	— 65
440	Rome	41 54	12 27	45·5	1009·1	1014·0	— 1·1	305·8	309·3	12th	294·1	290·0	26th	299·9	*299·8*	+2·6	54	+ 28
441	Vienna	48 15	16 22	203	992·3	1016·0	+ 0·6	296·4	303·7	10th	286·6	283·9	30th	291·5	291·4	−1·1	45	— 24
442	Budapest	47 31	19 2	130	1000·4	1015·6	+ 0·5	301·5	308·1	10th	287·2	282·5	30th	294·3	293·9	+0·9	17	— 32
	ϕSofia	42 42	23 20	550	953·0	1015·4	+ 0·6	300·7	303·8	4th	286·6	282·6	22nd	293·7	*293·4*	+0·3	16	— 38
	Bucharest	44 25	26 6	82	1005·7	1015·3	+ 1·4	301·7	306·1	11th	287·9	282·7	22nd	294·8	294·3	−0·9	3	— 48
444	Odessa (Observatory)	46 26	30 46	42·8	1010·0	1015·1	+ 0·8	297·0	301·4	1st, 11th	288·1	283·7	7th	292·6	*292·7*	−2·0	7	— 25
444a	Kharkiv (University)	50 0	36 14	140	996·2	1012·7	— 2·0	296·6	303·9	1st	283·5	278·4	23rd	290·0	*289·6*	−2·1	32	— 19
445	Novorossiisk	44 44	37 49	37·1	1008·8	1013·1	+ 0·9	300·4	304·5	5th	290·1	283·9	15th	295·2	*294·9*	−1·7	39	+ 4
446	ϕTiflis	41 43	44 48	404	965·5	1011·4	+ 0·1	299·2	306·0	1st	290·0	281·9	17th	294·6	*294·1*	−2·8	116	+ 78
447	Astrakhan	46 21	48 2	— 20	1013·4	1011·1	— 1·9	300·7	306·2	2nd	290·4	286·5	24th	295·6	*295·6*	−0·4	0	— 12
448	Fort Alexandrovsk	44 31	50 7	— 23·0	1014·0	1011·3	— 0·1	299·1	307·1	22nd	291·5	288·2	26th	295·3	*295·2*	−2·3	16	+ 4
449	ϕKrasnovodsk	40 0	52 59	— 4·6	1009·5	1009·0	— 1·1	305·0	312·1	3rd	295·1	289·9	17th	300·0	*299·5*	−1·8	11	+ 7
450	Kasalinsk	45 46	62 7	66·7	1000·7	1008·4	— 2·1	..	..	..	289·8	285·6	19th	..	*297·2*	+0·8	0	— 8
451	Tashkent	41 20	69 18	478	949·6	1002·1	— 4·8	309·4	313·7	15th	291·9	288·3	21st	300·6	*300·0*	+2·4	0	— 1
452	Narynskoe	41 26	76 2	‡2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Alma Ata	43 16	76 53	841	911·8	1002·5	— 5·3	305·7	310·8	9th	292·0	286·8	23rd	298·8	*298·5*	+4·3	4	— 23
455	ϕMoukden	41 48	123 23	43·8	1001·1	1006·1	— 0·7	302·3	306·0	6th	292·9	288·7	30th	297·6	297·0	+0·4	363	+207
456	Joshin	40 40	129 11	31·9	1004·2	1007·9	— 0·4	299·6	305·5	14th	293·2	289·3	2nd	296·4	295·9	+1·1	78	— 46
457	Yuki	42 20	130 24	65·6	1000·2	1007·8	— 0·9	298·8	306·6	8th	291·8	286·8	1st	295·3	294·8	+0·5	104	+ 45
458	Vladivostok	43 7	131 53	128	993·6	1008·5	— 1·0	296·8	303·0	8th	291·8	288·2	31st	294·3	*293·9*	+0·1	83	— 27
459	Ochiai	47 20	142 47	27·4	1003·6	1006·8	— 3·1	297·8	303·0	22nd	284·9	276·2	16th	291·3	291·6	+1·6	104	+ 17
460	Nemuro	43 20	145 35	26·7	1006·8	1010·0	— 1·5	294·6	299·9	5th	286·9	283·7	30th	290·8	290·7	+0·7	31	— 79
464	ϕSyana	45 14	147 53	39·3	1004·7	1009·4	— 2·0	293·3	297·0	27th	284·2	276·5	17th	288·7	289·1	+0·3	61	— 36
		N.	E.															

Between Latitude 40° N. and 30° N.

AUGUST—ZONE 5 (Western Half).

500	35°—30° N. 145°—140° W.	††31 37	††142 0	§ (23)	..	1022·0	— 1·4	..	..	Sea Temp. 294·7 | 0·0	..	..	..	..	294·7	+0·6	..	..
431	San Francisco	37 48	122 26	47·2	1009·2	1014·9	+ 0·8	293·1	301·3	25th	285·9	284·1	7th	289·5	*288·6*	+2·2	0	— 1
432	San Luis Obispo	35 18	120 39	61·3	1007·8	1015·2	+ 0·7	298·7	304·7	17th	284·0	280·2	8th	291·3	*289·1*	+0·6	0	— 1
433	San Diego	32 43	117 10	26·5	1010·2	1013·2	+ 0·8	295·5	298·6	25th	290·3	288·0	11th	292·9	*292·3*	−0·3	0	— 2
434	Modena	37 48	113 54	1670	835·2	1012·8	— 0·1	301·6	306·2	27th	283·5	279·7	6th	292·6	*292·1*	−1·1	54	+ 16
435	Santa Fé	35 41	105 57	2138	792·1	1013·9	+ 0·8	297·8	303·6	1st	285·7	281·3	23rd	291·8	*290·8*	−0·6	59	— 2
437	Denver	39 45	105 0	1613	841·0	1016·2	+ 0·9	299·0	303·6	13th	287·4	284·7	29th	293·2	*292·3*	−1·4	98	+ 62
438	Abilene	32 23	99 40	530	953·9	1013·5	0·0	307·6	311·9	4th	295·2	290·2	24th	301·4	*301·0*	+0·8	33	— 29
439	Saint Louis	38 38	90 12	173	994·6	1014·5	— 0·8	303·3	309·7	11th	293·7	286·3	22nd	298·5	*298·2*	+0·3	157	+ 69
440	Mobile	30 41	88 2	17·4	1014·6	1016·6	+ 0·9	303·6	305·8	16th	296·3	294·1	31st	300·0	*299·4*	+0·4	113	— 66
441	Nashville	36 10	86 47	166	997·1	1016·6	+ 0·2	302·8	307·4	15th	292·6	285·2	24th	297·7	*297·6*	−0·6	244	+154
442	Charleston	32 47	79 56	14·6	1015·2	1016·9	+ 0·3	304·3	308·6	12th	297·0	294·1	25th	300·7	*300·1*	+1·0	312	+144
443	Washington	38 54	77 3	34·1	1011·5	1015·6	— 0·8	301·7	307·4	3rd	291·3	283·6	22nd	296·5	*296·2*	0·0	56	— 49
444	Bermuda	32 17	64 46	46·0	1014·4	1019·7	+ 0·8	303·8	305·2	26th	297·2	294·1	28th, 29th	300·5	*300·3*	+0·2	61	— 77
444a	Santa Cruz (Flores)	39 27	31 9	40	1016·8	1021·8	— 1·7	298·5	301·4	12th	293·0	288·6	6th	295·8	*295·7*	+0·5	81	— 12
445	ϕHorta	38 32	28 38	65	1014·2	1022·1	— 0·7	297·9	301·6	28th	292·8	291·1	23rd	295·3	295·4	+0·1	73	— 4
446	Ponta Delgada	37 44	25 40	22	1019·7	1022·3	0·0	298·5	300·3	12th, 14th	293·6	291·3	5th, 31st	296·0	296·0	+1·1	..	..
447	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	37	— 22
448	Madeira (Funchal)	32 38	16 55	25	‡1016·9	‡1019·9	+ 0·6	299·3	309·0	12th	293·6	292·0	20th	296·5	*296·5*	+1·2	0	— 3
450	Lisbon	38 43	9 9	95	1006·4	1017·3	0·0	302·5	309·1	17th	291·6	287·7	31st	297·0	296·2	+1·5	0	— 6
450a	Melilla	35 17	2 59	40	..	..	..	307·8	310·8	19th	296·3	293·0	1st	302·0	*303·0*	+2·0	0	0
451	Gibraltar	36 6	5 21	16·2	..	1016·2	— 0·7	303·0	308·0	11th	293·7	291·3	23rd, 31st	298·3	*297·6*	+0·9	1	— 12
452	Colomb-Béchar	31 36	2 4	769	928·2	1010·4	..	312·2	314·0	13, 25, 28	296·2	293·0	28th, 30th	304·2	*304·0*	..	0	..
		N.	W.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of Normals *see* pages 107 and 108.

AUGUST—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1012·5	1015·1	— 2·8	304·8	310·0	14th	293·1	290·8	26th	298·9	..	+0·4	17	..
538	Algiers (Bouzaréah)	36 47	3 2	344	976·3	1015·1	— 0·5	302·2	308·7	21st	295·0	292·8	28th	298·6	*298·4*	+1·7	0	— 3
539	ϕTunis	36 48	10 10	21	1011·0	1013·4	..	306·1	311·1	31st	293·1	289·9	1st	299·6	*299·3*	+0·4	0	— 3
539*a*	Malta	35 53	14 30	56·4	..	1014·1	— 0·1	302·2	304·7	2nd	296·6	294·7	31st	299·4	*298·7*	+0·2	0	— 3
540	Riposto	37 41	15 14	14·2	..	1016·0	— 0·3	302·4	305·0	13th, 16th	296·0	293·0	31st	299·2	*298·7*	+0·2	10	— 3
541	Athens	37 58	23 43	107	1000·5	1012·7	+ 0·8	304·9	309·7	2nd	294·9	291·1	23rd	299·9	300·3	+0·7	3	0
542	ϕAlexandria	31 12	29 53	32·0	1006·0	1009·8	— 0·3	304·4	306·3	17th	296·0	293·4	28th	300·2	*299·3*	+0·1	0	— 3
543	Nicosia (P.W.D.)	35 9	33 22	159	988·3	1006·0	— 0·6	307·6	312·4	6th	293·3	288·6	27th	300·4	..	—0·6	0	— 3
544	Beirut	33 54	35 28	33·7	..	1007·5	— 0·7	303·7	304·9	6th	296·3	294·4	27th	300·0	*299·9*	—0·3	0	..
545	Hinaidi	33 17	44 29	32·3	..	1000·7	— 0·6	314·1	319·6	8th	296·6	291·3	24th	305·3	*306·4*	..	0	— 3
546	Lenkoran	38 46	48 52	— 20·0	1013·1	1010·8	— 0·6	..	304·9	4th	292·0	286·9	18th	..	*296·1*	—2·1	79	+ 35
547	Tehran	35 41	51 25	1220	..	..	..	305·8	308·0	16th	293·9	287·4	18th	299·9	*299·6*	—2·1	6	+ 1
548	Meshed	36 16	59 35	946	873·8	..	..	306·6	310·6	20th	288·0	284·9	8th	297·3	..	+1·2	0	— 3
549	Seistan	31 0	61 30	610	..	..	..	311·5	314·0	15th	298·9	293·0	31st	305·2	..	..	0	— 3
550	Quetta	30 11	67 3	1677	826·4	..	— 1·4	306·9	310·4	2nd	291·4	286·9	28th	299·2	*298·9*	+1·4	20	+ 8
551	Peshawar	34 2	71 37	339	961·8	999·1	— 1·2	309·0	314·7	17th	298·9	296·1	6th	303·9	*303·4*	—0·5	143	+ 49
551*a*	Lahore	31 34	74 20	214	975·4	999·0	— 1·0	306·7	311·7	3rd	299·4	296·7	29th	303·1	*302·6*	—1·1	182	+ 49
552	Simla	31 7	77 8	2204	777·3	..	— 0·7	291·8	295·8	16th	288·2	286·4	30th	290·0	*289·7*	—0·6	392	+ 23
552*a*	Leh	34 10	77 42	3503	665·0	..	0·0	295·6	299·7	3rd	283·7	281·6	31st	289·7	*288·3*	—0·6	37	..
559	Hankow	30 35	114 17	37·0	999·9	1004·0	— 1·7	307·4	311·2	4th	298·8	297·1	18, 19, 27	303·1	*302·6*	+0·8	66	— 35
560	ϕTientsin	39 10	117 10	5·0	1005·8	1006·3	— 0·7	303·2	309·6	7th	295·4	291·3	23rd	299·3	*299·0*	—0·2	263	+155
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1004·7	— 1·2	306·1	310·4	1st	297·4	295·6	25th	301·8	300·7	+0·8	75	— 69
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1000·6	1008·4	+ 1·1	302·4	307·0	6th, 23rd	295·8	293·0	30th	299·1	298·6	+1·0	140	—106
562*a*	Nagasaki	32 44	129 52	133	994·0	1009·0	+ 0·7	305·1	307·8	9th	296·9	294·7	31st	301·0	300·6	+1·0	78	—106
563	Kyoto	35 1	135 44	42·9	1005·5	1010·4	+ 1·5	307·4	310·6	16th	296·0	292·9	20th	301·7	300·7	+1·6	39	—104
564	Tokyo	35 41	139 46	5·8	1010·6	1011·2	+ 1·2	304·7	308·1	15th	296·6	294·3	21st	300·7	300·2	+1·8	42	—125
565	Kanayama	37 53	140 46	24·6	1008·1	1010·9	+ 0·8	303·5	308·6	14th	293·9	288·5	21st	298·7	298·0	+1·7	75	—103
566	Miyako	39 38	141 59	30·4	1006·9	1010·4	0·0	301·5	307·2	28th	292·2	287·9	21st	296·9	296·1	+1·1	17	— 3

AUGUST—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1017·6	— 0·3	302·8	304·1	9th	294·7	291·9	14th	298·8	*298·3*	..	105	..
605	Honolulu	21 19	157 52	11·6	1014·8	1016·1	0·0	301·2	302·4	..	296·1	294·7	..	298·7	*298·5*	—0·1	10	—27
614	La Paz	24 10	110 20	12	1009·7	1011·0	..	306·8	309·5	18th	297·7	295·0	9th	302·3	..	..	14	..
615	Chihuahua	28 38	106 4	1423	860·6	1010·5	..	300·4	306·0	1, 3, 4	289·7	288·0	sev. dates	295·1	*296·5*	—1·1	106	+ 45
616	ϕLeon	21 7	101 41	1809	824·7	1013·3	+ 2·4	300·5	303·3	16th	285·9	283·2	19th	293·2	*292·7*	—0·8	150	+ 45
616*a*	ϕMonterry	25 40	100 18	528	952·8	1011·0	+ 0·5	307·4	309·4	3rd	295·0	293·6	11th	301·2	*300·5*	+0·2	19	— 3
617	Tulancingo	20 5	98 22	2181	791·6	..	..	297·4	301·0	22nd	282·8	280·4	19th	290·1	*288·7*	—1·1	34	— 3
618	Galveston	29 18	94 50	16·5	1014·2	1016·2	+ 1·0	303·4	306·3	23rd	298·6	294·7	29th	301·0	*300·6*	—0·2	117	+ 45
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1016·2	+ 1·0	304·8	306·9	17th	296·7	294·1	6th	300·8	*300·1*	—0·2	193	+ 45
619	Merida, Yuc.	20 58	89 38	22	1012·8	1015·3	+ 0·1	305·0	306·8	5th	295·8	294·2	9th	300·4	*299·9*	+0·1	116	+ 45
620	Havana	23 8	82 21	24·3	..	1017·3	+ 1·8	304·8	306·4	27th	296·6	294·2	17th	300·7	*300·1*	0·0	122	+ 45
620*a*	Key West	24 33	81 48	6·7	1016·3	1016·9	+ 1·4	304·1	305·2	1st	298·2	294·7	21st	301·2	*300·9*	—0·5	99	+ 45
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1015·6	— 0·8	302·4	..	..	298·0	..	..	300·2	*300·3*	—1·1	46	+ 45
622	Watling Island	24 6	74 26	33·5	1014·0	1017·9	+ 2·8	..	305	6th	..	297	sev. dates	..	*300·0*	..	..	..
633	Izaña	28 19	16 30	2367	773·7	..	..	295·6	299·0	20th	287·4	282·6	16th	291·5	*290·7*	+0·9	0	— 3
634	La Laguna	28 28	W16 20	547	953·8	1015·7	+ 0·1	300·6	309·9	12th	289·4	286·2	8th	295·0	*294·3*	—0·2	..	..
641	Siwa	29 12	E25 29	—23	1014·0	1011·4	..	310·8	316·0	5th, 28th	292·9	290·0	13, 25, 26	301·8	..	..	0	— 3
642																		
643	Cairo (Helwan)	29 52	31 20	116	995·5	1008·4	— 0·2	308·1	312·9	6th	294·0	291·9	26th	301·1	*300·8*	+0·1	0	— 3
643*a*	Aswan	24 2	32 53	99·6	995·8	1006·7	+ 0·4	314·5	318·0	18th	299·0	294·0	27th	306·8	*306·4*	+1·0	..	..
644	Tor	28 14	33 37	1·9	1006·0	1006·3	+ 1·0	308·6	313·6	6th	296·0	292·9	15th	302·3	*301·8*	+0·7	0	— 3
647	Bushire	28 59	50 53	4·3	998·6	999·2	— 0·5	306·7	310·1	11th	301·6	297·7	19th	304·2	*303·6*	—1·1	0	— 3
648	Jask	25 44	57 47	4·0	998·9	999·4	— 1·4	309·2	314·9	6th	303·2	301·6	15th	306·2	*305·6*	+1·4	..	..
649	Karachi	24 53	66 57	4·0	999·5	1000·0	— 1·9	302·7	304·9	14th	298·8	297·9	17th, 29th	300·7	*300·1*	0·0	93	+ 47
650	Jacobabad	28 17	68 29	56·7	991·6	997·8	— 1·2	310·5	314·4	4th	300·8	293·1	13th	305·7	*305·1*	—1·3	92	+ 47
651	Jaipur	26 56	75 52	436	952·8	1000·8	— 1·2	303·9	306·3	25th	296·9	296·0	31st	300·4	*299·6*	—1·3	223	+ 47
652	Nagpur	21 8	79 5	310	968·4	1003·0	— 0·4	302·1	305·1	10th	296·4	294·8	25th	299·2	*298·4*	—0·9	201	+ 47
653	Allahabad	25 25	81 51	94·2	989·6	999·6	— 0·9	305·2	307·5	16th	298·8	296·3	23rd	302·0	*301·4*	—0·1	399	+ 47
653*a*	Darjeeling	27 3	88 18	2265	772·4	..	— 1·3	293·3	295·0	16th	287·7	285·9	19th	290·5	*290·2*	+1·1	374	+ 47
654	Calcutta	22 36	88 23	6·4	998·1	998·9	— 2·9	303·6	308·4	10th	298·8	297·7	22nd	301·2	*301·1*	+0·1	423	+ 47
655	Gauhati	26 8	91 41	59·7	994·7	1001·5	— 2·6	306·2	308·7	15th	298·6	296·2	27th	302·4	*301·6*	+0·6	270	—104
655*m*	Cherrapunji	25 15	91 42	1313	862·6	..	— 1·8	296·2	298·3	14th, 15th	292·2	291·2	30th	294·2	*293·7*	+0·9	924	—104
655*a*	Akyab	20 11	92 56	6·1	1001·9	1002·7	— 2·5	300·7	303·3	8th	296·9	295·6	2nd	298·8	*298·8*	—1·3	2237	—104
656	Mandalay	21 59	96 0	76·2	995·4	1003·9	— 1·6	306·9	310·1	5th	298·4	297·3	16th, 17th	302·7	*302·3*	—0·1	144	—104
656*a*	Tengyueh	25 2	98 33	1626	831·0	1000·2	— 0·1	297·6	300·8	9th	290·0	288·0	4th	293·8	*293·1*	+0·5	272	—104
657	ϕPhu Lien	20 48	106 38	116	988·9	1002·1	— 1·0	304·1	307·9	5th	297·8	295·7	25th	301·0	300·4	—0·4	341	—104
658	ϕMoncay	21 31	107 51	9·0	1000·8	1001·9	— 1·3	305·1	309·3	26th	297·3	295·7	1st	301·2	*301·2*	—0·1	708	—104
659	ϕHongkong	22 18	114 10	33·2	..	1002·0	— 3·0	302·7	306·8	4th	298·3	296·2	18th	300·5	300·3	—0·2	871	..
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1002·7	1003·7	— 1·2	305·9	309·3	1st	297·0	294·8	14th	301·4	300·8	0·0	312	+ 45
661*a*	Basco	20 28	121 59	18·7	..	1002·5	— 2·2	301·4	303·9	15th	299·0	296·9	21st	300·2	*300·1*	—0·7	385	+ 45
662	ϕNaha	26 13	127 41	10·5	1003·7	1004·9	— 1·3	304·5	306·5	23rd	298·0	296·6	25th	301·2	301·1	+0·3	402	— 3
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1009·9	1010·3	+ 1·9	304·1	305·5	3rd	297·5	296·0	4th	300·8	300·4	+0·3	143	— 3
		° N.	° E.	metres	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

AUGUST—ZONE 7.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	956·8	1012·2	..	304·6	306·8	sev. dates	293·2	291·2	2nd	298·9	*298·3*	+1·0	151	..
716	Morelia	19 42	101 7	1923	812·1	1012·8	..	295·3	298·0	24th	286·8	284·7	18th	291·1	*290·1*	—0·5	135	..
717	Mexico, Tacubaya	19 24	99 12	2309	776·1	..	0·0	296·8	299·4	2nd	283·4	281·4	21st	290·1	288·7	—0·3	157	+ 31
718	ϕSalina Cruz	16 12	95 12	56	1004·9	1011·3	— 1·1	304·1	306·5	27th	296·8	293·6	1st	300·5	*300·9*	+0·1	93	— 78
719	ϕSan Salvador	13 42	89 12	682	937·6	1013·1	+ 0·7	304·2	305·8	5th	290·8	289·0	7th	297·5	*296·4*	—0·2	152	—155
720	Belize	17 29	88 12	5·2	1012·8	1013·4	0·0	303·4	304·1	7, 17, 30	297·6	293·6	19th	300·5	*300·1*	—0·3	228	+ 60
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·4	+ 1·2	304·8	306·2	28th	295·7	294·0	1st	300·2	*300·0*	+0·4	122	— 56
722	Port au Prince	18 33	72 20	37·4	1011·0	1015·3	+ 0·8	307·5	309·9	20th, 24th	296·7	294·0	11th	302·1	*301·3*	+0·6	50	— 86
723	Caracas	10 30	66 56	1042	900·3	1014·5	+ 0·8	299·5	303·0	27th	288·7	286·0	6th	294·1	*292·9*	—0·3	79	— 29
724	Montserrat	16 41	62 9	36·6	1011·3	1015·5	+ 0·7	304·3	306·3	3rd, 6th	297·1	294·1	20th, 28th	300·7	*300·2*	0·0	162	— 17
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·8	‡1013·7	+ 0·9	302·2	303·6	25th	296·6	295·2	10th	299·4	*298·8*	0·0	184	— 58
725	Barbados	13 8	59 36	55·2	..	1014·2	+ 0·5	302·6	304·2	13th	..	..	..	..	*299·6*	+0·1	137	— 51
731	São Vicente, C. Verde Is.	16 54	25 4	11	1011·1	1012·3	— 0·2	300·6	302·5	27th	294·5	293·5	26th	297·5	*298·1*	—0·6	4	— 35
732	San Tiago, C. Verde Is.	14 54	23 31	34	1009·4	1013·3	— 0·2	301·3	303·0	15th	297·4	295·5	4th	299·3	*299·3*	—0·2	12	— 97
734	Bathurst	13 27	16 34	1·8	1013·6	1013·8	+ 0·5	302·6	304·1	7, 12, 17	295·4	294·1	sev. dates	299·0	*299·3*	—0·2	612	+114
735	M'Carthy Island	13 33	14 45	1·1	..	..	..	304·4	307·4	2nd	296·7	294·7	6th, 15th	300·6	..	+0·2	231	— 79
736	Niénébalé	12 57	7 26	300	..	..	..	302·6	305·0	16th	294·1	292·0	31st	298·3	..	..	285	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	309·7	315·5	17th	296·9	293·0	20th	303·3	*302·4*	—0·8	25	— 34
737	ϕSokoto	13 2	E 5 14	353	..	..	..	304·6	307·4	3rd, 16th	294·7	291·9	6th	299·7	*299·0*	+0·5	189	— 32
738	Kaduna Capital	10 32	7 25	637	944·9	1016·3	+ 1·3	300·1	302·4	8th	..	..	..	..	‡*294·9*	—0·3	116	—205
739	Hadeija	12 40	10 5	?	..	..	..	302·9	305·8	15th	294·6	292·4	5th, 9th	298·7	*298·0*	—0·6	383	+178
741	Maiduguri	11 47	13 11	361	..	..	..	304·7	308·6	4th	295·1	292·4	9th, 13th	299·9	*299·3*	0·0	198	— 11
741	El Fasher	13 32	25 18	730	..	..	..	305·2	308·2	11th	293·9	291·5	28th	299·6	*298·4*	..	75	..
743	El Obeid	13 11	30 14	569	947·1	1010·3	+ 0·7	304·6	307·5	26th	294·1	292·2	28th	299·4	*298·8*	—0·3	128	+ 13
744	ϕKhartoum	15 37	32 33	390	966·2	1009·1	+ 0·6	306·4	310·9	31st	296·2	292·9	20th, 24th	301·3	*301·5*	—2·5	213	+141
745	Port Sudan	19 37	37 13	5·5	1005·6	1006·3	+ 1·3	312·7	316·2	5th, 6th	300·4	292·6	14th	306·6	*305·7*	—0·8	39	+ 38
746	Berbera, Somaliland	10 22	45 2	9·5	1005·9	1007·0	+ 1·4	314·3	318·0	28th	303·4	300·8	4th	308·9	*308·2*	+0·1	0	— 1
746	Aden	12 45	45 3	28·7	1002·2	1005·5	+ 0·6	304·8	308·6	7th	297·3	294·5	9th	301·1	*300·9*	—2·2	0	— 3
751	Bombay	18 54	72 49	11·3	1004·3	1005·6	— 1·2	302·0	303·3	30th	298·3	297·2	9th	300·1	299·6	0·0	221	—129
752	Kodaikanal	10 14	77 28	2343	769·3	..	— 0·2	291·0	292·8	28th	284·1	282·6	24th	287·5	*286·8*	+0·3	60	—117
753	Bangalore	12 59	77 38	921	908·1	1008·4	— 0·2	300·6	303·2	31st	291·6	290·5	24th	296·1	*295·1*	0·0	56	— 81
754	Madras	13 4	80 14	6·7	1006·4	1007·2	0·0	309·9	311·5	19th	299·1	296·6	9th	304·5	*303·8*	+1·7	84	— 34
754	Vizagapatam	17 42	83 19	11·6	1000·8	1002·0	— 1·4	307·0	310·2	25th	299·5	298·1	14th	303·3	*302·7*	+1·0	17	—119
755	Port Blair	11 40	92 40	18·0	1005·4	1007·7	— 0·6	302·2	303·6	31st	298·5	297·1	14th	300·3	*299·7*	0·0	182	—191
757	Rangoon	16 46	95 48	5·5	1005·9	1006·6	— 0·9	302·1	304·2	31st	297·2	296·1	2nd	299·7	*298·8*	—0·2	607	+102
758	Saigon (Cap St. Jacques)	10 20	107 5	18	987·0	1007·5	+ 0·4	301·6	303·8	29th	296·4	294·0	2nd	299·0	*298·6*	—0·6	154	+ 3
759	Nhatrang	12 15	109 12	3·6	1004·0	1004·4	— 0·8	306·0	307·9	12th	297·5	296·4	2nd	301·7	*301·1*	—0·1	42	— 2
759	Bolinao	16 23	119 53	7·1	..	1003·5	— 2·2	302·9	306·0	13th	295·1	293·4	20th	299·0	*298·9*	—0·9	1357	+797
764	Vigan	17 34	120 23	12·2	..	1004·4	— 1·9	302·4	305·1	15th	296·5	294·5	4th	299·5	299·1	—0·7	1152	+446
764*a*	Manila	14 35	120 59	14·2	..	1006·2	— 0·9	302·8	305·0	12th, 31st	296·7	295·4	14th, 20th	299·7	299·2	—0·8	1148	+742
765	ϕOrmoc	11 0	124 36	5·6	..	1007·0	— 0·3	304·6	306·2	31st	296·7	294·5	25th	300·7	*300·5*	+0·7	254	+ 10
765	Guam, Ladrone Is.	13 24 N.	144 38 E.	18·6	..	1006·7	— 0·4	303·0	305·1	26th	297·1	295·8	18th	300·1	*300·0*	—0·2	348	— 55

Between Latitude 10° N. and 0°.

AUGUST—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
772	Fanning Island	3 54	159 23	5·3	1010·6	1011·2	..	304·9	307·4	24th	298·4	296·0	9th	301·7	*301·3*	+0·6	108	— 15
773	Colon	9 23	79 23	11·0	..	1010·7	— 0·2	303·1	304·7	5th	297·5	294·7	27th	300·3	*299·9*	+0·7	390	+ 15
774	Bogota	4 36	74 5	2645	744·4	..	..	290·9	292·9	23rd	282·5	279·0	31st	286·7	*286·3*	..	55	— 2
775	Merida, Venez.	8 36	71 9	1641	‡841·4	..	— 0·5	298·3	301·0	4th	287·9	286·5	5th, 20th	293·1	*291·9*	0·0	113	— 41
776	Ciudad Bolivar	8 9	63 33	38	1007·3	1011·6	..	304·7	306·1	26th, 31st	296·7	294·5	10th	300·7	*300·2*	..	43	—134
777	ϕEl Peru, Guayanavieja	7 19	61 49	220	986·9	1011·9	+ 0·8	303·2	304·2	19th	292·9	292·0	24th	298·1	*297·4*	—0·5	46	—148
778	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1014·3	+ 1·4	303·2	304·1	9th	297·0	294·7	1st	300·1	*299·8*	—0·3	197	+ 32
779	Paramaribo	5 49	55 9	3·7	‡1014·3	‡1014·7	+ 1·3	304·8	307·2	27th	295·1	293·5	4th	299·9	*299·4*	+0·5	117	— 34
780	Cayenne	4 56	52 21	6	..	..	..	306·4	308·0	9th	295·6	295·0	sev. dates	301·0	*300·4*	+1·0	108	+ 38
										Sea Temp.							
781	10° —5° N. 30° —25° W.	†† 36	†28 12	§(72–81)	..	1015·0	+ 1·4	..	..	298·9	—0·5	..	..	..	298·6	—0·4	..	..
782	Konakri	9 31	13 43	16	..	..	..	299·5	302·5	20th	295·4	294·5	18th	297·7	*297·4*	—0·3	1145	+ 83
784	Freetown, Sierra Leone	8 29	13 9	68·3	1005·9	1013·8	+ 1·1	301·2	303·0	10, 11, 22	295·2	293·6	17, 18, 19	298·2	*297·4*	—0·3	554	—375
785	Assuantsi	5 18	1 15	101	..	..	..	299·6	303·6	28th	293·1	289·1	29th	296·3	*295·8*	..	8	— 54
787	ϕAccra	5 33	W 0 12	27·0	1010·8	1013·9	..	299·7	300·8	2, 4, 22	293·5	291·9	29th	296·6	*296·2*	—0·1	0	— 16
788	ϕLagos	6 27	E 3 24	4·6	1012·6	1013·1	+ 0·1	300·6	302·4	21st, 28th	295·3	293·6	11th, 19th	297·9	*297·2*	—0·6	3	— 64
789	Zungeru	9 48	6 10	130	..	..	..	302·3	305·8	7th, 15th	294·4	291·9	24th	298·3	*297·8*	—0·4	178	— 52
789	ϕYola	9 12	12 30	259	..	..	..	303·2	305·8	13th, 14th	..	..	..	..	‡*298·4*	—0·2	58	—141
791	Wau	7 42	28 3	440	..	..	..	303·5	306·0	18, 19, 29	293·2	292·0	sev. dates	298·4	*297·2*	—0·4	359	+152
793	Malakal (Kodok)	9 35	31 37	394	967·0	1011·1	+ 0·1	303·6	307·1	26th	294·1	291·9	31 st	298·8	*297·6*	+0·2	133	— 28
794	Mongalla	5 11	31 47	439	960·8	1009·5	— 0·2	305·4	308·6	25, 26, 30	..	..	..	..	..	..	84	— 64
795	ϕEntebbe	0 5	32 29	1171	885·0	1011·6	+ 0·3	297·5	298·6	5, 17, 30	289·2	285·8	16

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1009·8	1010·8	+ 0·4	..	..	..	297·7	296·9	9, 13, 31	..	..	..	55	+ 14
924	ϕManaos	3 8	60 1	43·8	..	..	..	305·5	307·6	27th	296·2	294·2	15th	300·8	..	..	10	— 28
926	Taperinha	2 30	54 20	20·0	1010·2	1012·6	0·0	304·8	306·4	10th	294·4	292·3	5th	299·6	*298·8*	+0·5	34	— 14
927	ϕTuryassu	1 43	45 26	9·1	1011·2	1012·2	— 0·6	304·8	306·5	20th	294·6	292·0	5th	299·7	*298·8*	—0·2	39	— 36
928	ϕBarra do Corda	5 30	45 16	81·0	1001·8	1011·3	— 0·6	306·3	307·8	30th	290·5	287·2	6th	298·4	*297·3*	—0·9	1	— 7
929	Quixeramobim	5 16	39 15	207	991·8	1015·1	+ 1·2	305·6	306·8	29th, 30th	295·1	293·7	7th, 8th	300·4	*300·0*	+0·1	0	— 11
930	ϕFernando Noronha	3 50	32 25	106	1002·8	1014·9	+ 0·1	299·5	300·4	22, 24, 25	296·0	294·8	5, 12, 14	297·8	*297·4*	0·0	19	— 20
934	Ascension Island	7 56	W14 25	16·8	1014·5	1016·4	— 0·2	301·3	303·0	18th	294·9	293·0	12th	298·1	*297·4*	+0·1	13	— 1
939	Loanda	8 49	E 13 13	51	..	1015·8	+ 0·4	295·2	297·8	20th	290·0	288·5	4th, 15th	292·6	292·1	—0·7	0	+ 3
940	Brazzaville	4 17	15 16	321	981·2	1017·9	+ 3·4	301·1	307·0	28th	290·9	288·0	4th	296·0	*295·3*	—0·6	9	
943	Masaka	0 21	31 47	?1280	..	..	..	304·8	305·2	sev. dates	..	..	..	..	*292·6*	+0·5	14	— 43
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	294·1	298·0	16th	284·7	279·7	4th	289·4	..	..	2	— 31
944a	Zanzibar	6 10	39 11	21·9	1016·9	1019·5	+ 0·6	299·7	300·9	26th	295·5	293·8	2nd	297·6	*296·7*	—0·3	100	+ 57
945	ϕLamu	2 16	40 50	3·0	..	..	..	300·5	301·3	20th	296·1	294·1	6, 7, 8	298·3	*297·9*	—0·9	48	+ 5
947	Seychelles, Port Office	4 37	55 27	4·6	1013·1	1013·6	+ 0·7	299·7	300·4	23rd	298·0	296·7	26th	298·9	*298·0*	+0·2	108	
957	ϕPadang	0 56	100 22	6·7	1009·9	1010·6	0·0	..	..	..	..	..	..	..	..	..	140	— 205
958	Batavia	6 11	106 50	8·0	1010·4	1011·3	+ 0·9	304·3	305·4	14th	294·7	292·3	10th	299·5	299·1	0·0	0	— 45
958a	Pontianak	0 1	109 20	2·6	1010·4	1010·6	+ 0·7	..	..	..	..	..	..	..	..	..	80	— 149
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	0	— 6
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	0	— 17
962	Amboina	3 42	128 10	4·2	1011·4	1011·9	+ 0·6	..	..	..	..	..	..	..	..	..	43	— 302
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	94	— 40
965	Daru	9 4	143 13	7·6	..	1013·5	+ 1·2	300·1	..	..	295·7	..	..	297·9	*297·5*	—0·1	17	— 34
966	ϕPort Moresby	9 29	147 9	39·0	..	1014·3	+ 2·3	298·0	..	..	294·9	..	..	296·4	*296·1*	—1·9	4	— 15
967	Rabaul	4 9	152 12	20·7	..	1010·1	..	303·4	305·2	18th	295·3	293·3	4th	299·4	*298·9*	—0·6	102	— 6
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1010·9	1011·2	+ 0·5	303·5	305·2	8th, 23rd	296·8	295·8	5th	300·2	*300·0*	+0·2	225	+ 49
970	Ocean Island	0 52 S.	169 35 E.	54·0	1002·3	1008·4	+ 0·3	303·8	305·2	1st	296·4	294·7	21st, 29th	300·1	*299·4*	—0·8	433	+ 334

Between Latitude 10° S. and 20° S.

1002	Apia, Samoa	13 48 S.	171 46 W.	2	..	1013·1	+ 0·8	303·0	304·5	25th	295·3	293·4	19th	299·1	298·6	+0·2	153	+ 61
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	301·4	304·1	3, 13, 15	291·5	288·0	18, 19, 20	296·4	*296·2*	+0·3	13	— 105
1021	ϕArequipa	16 22	71 33	2452	761·9	..	+ 0·6	293·2	295·9	4th	283·1	280·8	23rd	288·1	*288·3*	+0·9	0	0
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	..	..	..	..	*286·0*	..	7	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·5	..	..	..	295·5	31st	..	274·5	21st	..	*285·2*	..	2	— 3
1025	ϕCorumba	18 59	57 39	116	999·5	1012·6	— 0·4	300·8	307·0	27th, 28th	291·7	284·2	21st	296·2	*296·5*	+0·1	15	— 10
1026	ϕCuyaba	15 36	56 6	165	993·7	1012·5	— 0·1	306·4	310·0	17th	291·3	286·8	1st	298·8	*297·6*	+0·1	25	— 4
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	918·1	1018·0	0·0	298·1	304·6	22nd	286·9	283·3	20th	292·5	*292·7*	—1·1	54	+ 42
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1011·6	1017·1	— 0·7	298·9	301·8	22nd	293·9	291·5	7th	296·4	*296·1*	—0·1	175	+ 19
1030	ϕAracaju	10 55	37 3	6.1	1017·1	1017·9	+ 0·1	299·4	300·9	23rd	293·8	291·7	3rd	296·6	*296·4*	—1·6	93	
1035	St. Helena	15 57	W 5 40	‡604	947·0	1016·8	— 0·2	290·4	291·9	12th	284·5	283·9	2nd, 5th	287·5	*287·2*	+0·1	219	+125
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	295·1	8th	..	285·6	26th	..	*290·9*	..	0
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	0	0
1041a	Bloemfontein	11 39	27 28	1236	878·8	1013·0	— 1·0	301·6	305·2	20th	282·1	278·2	11th	291·8	..	+0·6	0	— 3
1042	Gwelo	19 28	29 48	1417	866·2	1012·2	+ 1·1	298·2	303·6	25th, 26th	278·3	273·1	2nd	288·3	..	—0·1	0	
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡857·5	‡1017·4	— 0·1	297·7	302·3	26th	279·3	273·6	9th	288·5	*287·8*	—0·2	4	+ 2
1044	Zomba	15 23	35 18	955	912·4	1019·0	+ 1·2	296·9	301·9	25th	286·1	283·0	9th	291·5	*290·8*	+0·2	28	+ 19
1045	ϕAntananarivo	18 55	47 33	1375	869·9	1021·2	+ 1·5	293·5	296·7	29th	280·8	278·0	29th	287·1	287·1	+0·1	5	+ 3
1046	Tamatave	18 10	49 24	5	..	..	..	297·1	298·5	..	289·5	283·0	..	293·3	*292·8*	..	198	..
1047	Vohémar	13 21	50 1	3	..	..	..	300·5	302·0	..	291·6	..	..	296·0	*295·4*	..	144	..
1048	Antalaha	14 58	50 19	3	1019·2	1019·5	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1015·5	1016·0	+ 1·5	300·3	301·5	30th	297·1	294·9	27th	298·7	*298·4*	—0·2	95	— 51
1057	ϕChristmas Island	10 25	105 43	5·5	1010·4	1011·0	+ 0·5	302·9	304·1	14, 15, 26	295·2	294·1	11, 22, 24	299·1	*298·3*	—0·3	19	— 36
1061	Kupang	10 10	123 34	45·1	1008·3	1013·7	+ 1·5	303·8	306·0	27th	292·2	289·7	19th	298·0	297·3	—1·4	0	— 5
1061a	ϕDerby	17 18	123 40	16·2	1015·1	1017·0	+ 2·3	302·6	307·8	29th	287·9	283·1	8th	295·3	..	—1·4	0	— 5
1062	ϕHall's Creek	18 13	127 46	373	975·5	1017·7	+ 2·2	301·1	304·8	24th	280·4	273·5	8th	290·8	*290·1*	—2·9	0	— 3
1063	Darwin	12 28	130 51	29·6	1011·4	1014·7	+ 2·2	303·7	306·9	15th	291·6	288·5	10th	297·6	*296·4*	—1·7	0	— 4
1064	Daly Waters	16 16	133 23	211	991·0	1015·2	+ 1·2	301·9	306·9	29th	283·3	277·4	8th	292·6	*291·9*	—3·2	0	— 5
1065	ϕMein	13 13	142 47	122	999·6	1013·5	+ 0·9	301·6	303·6	12, 20, 21	287·9	284·7	5th, 15th	294·7	..	—2·2	0	— 5
1066	ϕGeorgetown, Queensland	18 22	143 32	302	982·6	1016·9	+ 1·1	301·2	304·7	13th	284·6	278·0	5th	292·9	..	—1·5	1	..
1066a	Willis Island	16 18	149 59	8·5	1015·1	1016·0	..	298·1	299·6	15th	293·8	291·8	7th	295·9	*295·5*	..	12	— 46
1067	Samarai	10 37	150 40	15·2	..	1014·4	+ 1·4	299·4	..	..	294·5	..	..	296·9	*296·7*	—0·8	167	— 43
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1015·2	1016·0	+ 0·2	298·2	303·2	23rd	293·0	290·2	4th	295·6	*295·4*	—0·5	160	— 45
		°	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" page 112. ϕ Change of Normals *see* pages 112 and 113.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	297·4	302·2	25th	290·7	286·9	18th, 20th	294·0	*293·8*	—0·2	287	+174
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1015·1	1018·4	+ 0·4	288·2	291·6	31st	282·9	279·0	29th	285·5	*285·3*	+0·2	34	+ 15
1122	Iquique	20 12	70 11	9	1015·9	1017·0	+ 0·4	290·8	292·8	25th	285·6	284·3	22nd	288·2	*288·7*	—0·1	0	0
1123	Catamarca	28 27	65 47	510	955·0	1014·1	— 1·3	295·0	305·0	25th	279·1	269·4	31st	287·1	287·4	—0·5	0	— 7
1124	Salta	24 46	65 28	1178	883·0	1015·9	— 0·5	294·0	305·4	6th	277·0	272·2	1st	285·5	285·4	—0·8	0	— 5
1125	Goya	29 9	59 15	26	1010·9	1014·0	— 1·1	295·5	303·6	9th	283·7	275·6	31st	289·6	288·8	+0·6	83	+ 46
1126	Asuncion	25 17	57 41	93	1003·9	1015·0	— 0·6	301·6	309·0	18th	287·5	279·5	15th	294·6	292·8	+0·7	6	— 33
1127	Curityba	25 25	49 17	908	915·9	1018·6	— 0·4	294·4	300·2	27th	281·1	273·1	16th	287·8	*286·8*	+0·5	44	— 39
1128	Rio de Janeiro	22 54	W43 10	33·0	1014·9	1018·8	0·0	299·0	304·0	28th	289·6	286·8	7th	294·3	293·8	+0·3	‡22	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	295·9	299·4	25th	282·2	278·6	19th	289·0	*288·9*	+1·0	0	— 2
1140																		
1141	Kimberley	28 42	24 47	1202	887·7	1022·2	+ 1·4	295·7	301·9	25th	278·2	270·9	6th	286·9	286·4	+1·1	4	— 2
1141a	Johannesburg	26 11	28 4	1806	826·6	1021·5	+ 1·2	293·2	298·7	25th	281·2	272·6	19th	287·2	*286·8*	+1·8	1	— 12
1142	Bulawayo	20 9	28 35	1340	872·8	1019·7	+ 0·8	297·1	302·1	25th	281·6	277·6	9th	289·3	*289·1*	+0·1	0	— 1
1143	Durban	29 52	31 3	15·2	1021·8	1023·6	+ 1·3	295·6	299·3	10th, 18th	287·2	282·8	7th	291·4	*291·0*	+0·3	36	— 8
1144	Lourenço Marques	25 58	32 36	59	..	1022·3	+ 0·6	298·5	306·0	18th, 23rd	287·5	284·0	8th	293·0	292·6	+0·7	7	— 8
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	284·4	284·0	..	..	..	..	0	— 6
1146	Fort Dauphin	25 2	46 58	25	..	1023·9	..	296·4	299·0	..	285·5	283·0	..	290·9	*290·2*	..	0	— 17
1147	Mauritius	20 6	57 33	55·2	1015·8	1022·3	+ 1·8	296·3	298·0	24th	289·7	286·3	15th	293·0	292·7	—0·3	12	..
1159	Onslow	21 43	114 57	4·3	1016·2	1017·1	+ 0·9	300·3	304·8	24th	283·2	280·4	13th	291·8	..	—0·3	23	— 37
1160	Cue	27 27	117 52	454	967·8	1020·4	+ 1·8	292·9	299·7	18th	280·2	275·3	12th	286·6	..	—0·4	2	— 17
1161	ϕNullagine	21 53	120 5	386	973·7	1017·5	+ 0·8	299·5	303·2	15th, 26th	280·3	275·1	7th	289·9	..	—0·8	0	— 10
1162	Laverton	28 40	122 23	466	967·3	1021·2	+ 0·7	293·5	303·0	19th	278·8	273·0	13th	286·2	*286·1*	+0·1	0	— 16
1163	Alice Springs	23 38	133 37	587	952·7	1019·9	+ 0·7	294·0	302·2	27th	277·4	270·2	7th	285·7	*285·5*	—1·9	0	— 10
1164	ϕWilliam Creek	28 55	136 21	76·2	1012·1	1021·3	+ 1·6	293·7	302·2	26th	278·4	272·4	6th	286·0	*285·7*	—0·5	0	— 7
1164a	Boulia	22 55	139 38	146	1001·1	1018·1	+ 1·4	296·9	305·4	28th	279·1	273·7	1st	288·0	*287·8*	—2·1	0	— 6
1165	Thargomindah	27 58	143 43	123	1005·2	1019·9	+ 0·8	292·3	301·4	27th, 28th	278·9	275·1	4th	285·6	*285·3*	—1·8	0	— 14
1165	Mitchell	26 32	147 52	336	980·5	1019·4	..	293·6	299·7	29th	275·3	269·9	16th	284·4	..	—1·2	4	— 21
1167	ϕRockhampton	23 24	150 30	11·3	1017·1	1018·5	— 0·3	297·3	301·6	13th	282·9	276·8	5th	290·1	..	—0·9	5	— 22
1168	ϕBrisbane	27 28	153 2	41·8	1014·4	1019·4	+ 0·3	293·5	297·4	30th	282·4	278·3	16th	288·0	*287·5*	—0·8	18	— 35
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1017·2	1019·0	+ 0·6	290·7	293·6	31st	285·6	282·4	17th	288·1	*287·7*	—0·8	83	— 65

Between Latitude 30° S. and 40° S.

1221	Juan Fernandez	33 37 S.	78 50 W.	345	..	..	..	285·1	288·1	13th	280·3	276·4	28th	282·7	*282·7*	..	163	..
1221a	Punta Tumbes	36 37	73 6	120	1002·6	1017·3	— 1·9	285·5	287·0	2nd, 29th	278·9	276·0	31st	282·2	*282·5*	—1·3	214	+150
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1013·8	1018·8	+ 0·2	288·2	296·0	14th	281·5	278·0	28th	284·9	*284·4*	—1·0	125	+ 56
1223	Santiago	33 27	70 42	520	956·8	1018·5	— 0·3	287·8	294·7	20th	277·0	270·3	31st	282·4	*281·8*	—0·2	79	+ 24
1224	Cordoba	31 25	64 12	423	965·2	1015·1	— 1·6	292·9	304·8	26th	277·5	268·0	30th	285·2	284·4	—0·5	1	— 12
1224a	Bahia Blanca	38 45	62 15	25	1014·2	1017·4	+ 0·3	284·9	292·0	5th	277·8	273·0	23rd	281·3	281·0	—1·4	119	+ 95
1225	Buenos Ayres (Chacarita)	34 36	58 22	25	1013·0	1016·0	— 2·5	288·0	298·3	6th	279·9	273·1	20th	283·9	284·0	+0·4	159	+ 96
1226	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1015·4	— 2·2	..	300·5	6th	..	276·1	3rd	..	*284·9*	+0·6	129	+ 26
1226a	ϕPorto Alegre	30 2	W51 13	23·5	1013·8	1016·6	— 2·3	294·0	303·1	7th	283·8	275·3	3rd	288·9	288·6	+1·0	130	+ 13
1239	ϕCape Town	33 56	E 18 29	12·2	..	1020·3	+ 0·1	290·9	303·9	10th	282·1	277·0	4th	286·5	*285·1*	+0·4	81	— 5
1240	Danger Point	34 37	19 18	27·7	1015·5	1018·9	..	289·6	298·0	23rd	282·4	278·0	20th	286·0	..	—0·1	138	+ 50
1241	Riversdale	34 6	21 16	‡‡100	1008·1	1020·2	..	295·0	308·0	31st	276·7	273·6	5, 8, 28	285·8	..	..	18	— 18
1242	East London	33 2	27 55	44·8	..	1020·9	+ 1·0	295·5	308·6	11th	283·3	276·9	7th	289·4	..	+0·8	4	— 38
1250	ϕPerth (Observatory)	31 57	115 51	60·0	1012·9	1020·3	+ 1·5	290·9	298·1	18th	282·5	277·9	26th	286·7	*286·7*	+0·4	99	— 45
1251	Katanning	33 42	117 35	310	982·0	1019·2	+ 1·3	287·8	294·7	18th	278·2	272·7	14th	283·0	..	—0·4	58	— 5
1260																		
1261	Coolgardie	30 57	121 10	423	970·9	1020·4	+ 1·4	291·4	299·0	19th	278·4	272·3	12th	284·9	*284·8*	—0·1	5	— 21
1262	Eucla	31 45	128 58	4·6	1019·2	1019·8	+ 1·8	291·1	303·4	21st	279·7	273·2	17th	285·4	*285·1*	—1·1	32	+ 8
1263	Streaky Bay	32 48	134 13	13·1	1019·3	1020·7	+ 1·3	289·7	294·2	26th	281·0	277·4	7th	285·3	*285·0*	—0·4	61	+ 12
1264	ϕAdelaide	34 56	138 35	42·7	1015·2	1020·4	+ 1·2	289·1	296·4	26th	280·7	276·8	17th	284·9	*284·8*	—0·3	57	— 7
1264a	ϕMelbourne	37 49	144 58	35·1	1014·9	1019·0	+ 1·0	287·3	293·8	27th	279·2	274·2	18th	283·2	*282·8*	—0·4	50	+ 3
1265	Bourke	30 13	145 58	110	1009·4	1023·0	+ 0·8	292·8	303·0	28th	278·8	275·2	17th	285·8	..	—0·9	3	— 19
1266	ϕSydney	33 51	151 13	42·1	1014·1	1019·1	+ 1·0	290·4	299·8	29th	281·7	278·4	13th	286·1	*285·4*	+0·3	104	+ 29
1266a	ϕLord Howe Island	31 20	159 0	4·6	1018·2	1018·8	+ 0·5	291·1	293·2	31st	284·5	279·6	26th	287·8	..	—0·8	193	+ 57
1271	Auckland	36 50	174 50	38·1	..	1017·7	+ 2·5	286·4	288·3	18th	279·7	275·4	1st	283·1	..	—1·1	81	— 26
1272	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Between Latitude 40° S. and 50° S.

1301	Chatham Island	43 57 S.	176 31 W.	45·7	..	1009·7	..	..	..	..	..	..	..	..	..	..	39	— 48
1321	Isla Guafo	43 34	74 45	140	996·8	1013·9	— 0·6	282·4	284·9	30th	278·2	275·0	1st	280·3	*280·4*	—0·1	100	— 31
1322	Punta Galera	40 1	73 44	40	1011·5	1016·4	— 0·8	283·7	286·4	11th	279·3	276·0	17th	281·5	*281·7*	—0·3	381	+114
1323	Sarmiento	45 30	69 0	274	983·0	1014·8	+ 2·3	281·8	289·4	20th	272·4	263·4	1st	277·1	276·6	—1·7	14	+ 4
1324	Puerto Madryn	42 49	W64 58	14	1015·7	1017·1	+ 3·5	284·2	293·3	20th	275·4	267·0	1st	279·8	279·8	—1·7	16	+ 9
1365	Launceston	41 27	E147 10	10·1	1013·7	1014·9	+ 0·3	287·7	291·1	18th	277·1	272·2	17th	282·4	*281·9*	+1·1	52	— 18
1366	ϕHobart	42 53	147 20	53·9	1007·5	1014·1	+ 0·8	286·7	291·4	28th	278·4	274·8	8th	282·5	*282·0*	+0·6	41	— 5
1370	Invercargill	46 25	168 21	3·7	..	..	..	283·9	291·9	30th	273·9	268·0	14th	278·9	..	—0·7	105	+ 19
1371	Dunedin	45 52	170 31	91·4	..	1015·9	+ 3·4	285·0	293·6	30th	276·9	272·4	12th	280·9	..	+1·2	40	— 40
1371a	Christchurch	43 31	172 39	7·6	..	1016·8	+ 2·3	284·1	294·1	31st	274·1	269·4	19th	279·1	..	—0·7	39	— 6
1372	Wellington	41 16 S.	174 46 E.	3·0	..	1018·4	+ 4·0	285·2	289·1	31st	277·2	271·9	9th, 26th	281·2	..	—1·0	88	— 26
		°	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" pages 113 and 114. ϕ Change of Normals *see* pages 113 and 114.

AUGUST—ZONE 14.

Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas .	52 24	75 6	55	1001·1	1007·9	+ 5·8	278·3	280·6	3rd	275·0	270·8	1st	276·7	*276·7*	—0·5	146	— 72
1422	Puerto de Punta Arenas .	53 10	70 54	28	1007·0	1010·5	+ 6·7	276·5	280·5	29th	272·0	267·5	1st, 2nd	274·3	*274·7*	—0·9	19	— 14
1423	Punta Dungeness . .	52 24	68 26	5	1009·2	1009·8	+ 6·7	279·0	281·4	16th	272·3	268·4	10th, 11th	275·7	*274·8*	—1·2	4	— 1
1424	Santa Cruz . . .	50 11	68 21	12	1010·5	1011·6	+ 5·4	277·9	283·5	21st	270·3	262·4	2nd	274·1	274·0	—2·5	3	..
1424a	‡Año Nuevo . . .	54 39	64 8	50	..	..	..	277·1	281·5	11th	273·7	269·0	26th	275·4	*275·3*	—0·2	50	..
1425	Stanley, Falkland Is. .	51 42	57 51	1·8	..	1011·5	..	277·7	279·7	20th	272·3	266·3	3rd	275·0	..	..	..	..
1426	Cape Pembroke . .	51 41	57 42	21·3	1008·1	1010·7	+ 6·5	277·1	280·8	21st	272·8	268·6	1st	274·9	275·4	—0·6	..	..
1429	S. Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	999·6	1000·1	+ 0·8	272·7	277·5	24th	266·3	258·8	29th	269·5	*270·0*	—1·4	118	— 11

AUGUST—ZONE 15.

Between Latitude 60° S. and 70° S.

1527	South Orkneys. . .	60 44 S.	44 39 W.	7	999·6	1000·5	+ 5·2	267·1	272·9	22nd	258·9	242·7	28th	263·0	263·2	—0·1	46	+ 11
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS.—AUGUST 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort). 9h.	Sierra Leone. 834. 17h.	Entebbe. 844. Direction and Force (Beaufort). 7h.	Entebbe. 844. 21h.	Malden Island. 905. Direction and Force (Beaufort). 9h.	Malden Island. 905. 20h.	Tulagi. 969. Direction and Force (Beaufort). 9h.	Ocean Island. 970. Direction and Force (Beaufort). 8h.	Ocean Island. 970. 20h.	Suva, Fiji. 1072. Direction and Force (Beaufort). 9h.
	9h.	m/s	9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	SE	9·5	ESE 2	Calm 0	SE 1	SE 1	W 2	E 4	EbyS 5	SE 2	ESE 3	E 1	SE 4
2	SE	9·5	SE 4	NE 1	SW 1	SE 2	Calm 0	E 5	ESE 4	SE 2	Calm 0	E 1	SE 5
3	SE	7·0	SE 2	Calm 0	SW 1	N 1	S 1	EbyS 5	EbyS 3	SE 2	ESE 2	SE 3	SE 5
4	SE	2·0	SE 4	SW 2	SW 2	Calm 0	S 1	EbyS 4	E 3	SE 4	SSE 3	SE 3	E 2
5	Calm	3·0	ESE 3	SW 4	SW 3	E 1	S 1	EbyS 5	EbyS 5	Calm 0	SE 3	ESE 2	SE 2
6	SSE	3·9	ESE 4	SSW 3	SSW 3	S 2	S 1	ESE 5	EbyS 3	Calm 0	E 3	E 2	Calm 0
7	SE	3·9	Calm 0	SE 1	Calm 0	N 2	Calm 0	ESE 5	ESE 4	Calm 0	Calm 0	Calm 0	Calm 0
8	SE	3·0	E 4	NE 1	SSW 1	Calm 0	Calm 0	EbyS 4	EbyS 5	Calm 0	SE 3	Calm 0	S 3
9	SSE	5·3	ESE 4	Calm 0	SSW 2	NW 1	Calm 0	E 3	E 3	SE 2	SE 3	ESE 1	S 2
10	SSE	4·8	ESE 4	SW 1	SSW 1	NW 1	Calm 0	E 3	E 5	..	E 2	E 2	SE 2
11	SE	5·9	ESE 4	Calm 0	SW 1	N 2	Calm 0	E 5	E 5	..	E 2	E 1	E 1
12	SSE	8·8	ESE 3	SSW 1	SW 2	N 1	Calm 0	E 5	ESE 5	SE 2	E 2	Calm 0	NE 1
13	SE	7·5	E 3	SSE 1	SW 2	E 1	SE 2	EbyS 5	E 5	SE 2	E 1	E 1	NE 2
14	SE	5·9	SE 4	Calm 0	SW 2	Calm 0	Calm 0	EbyS 5	EbyS 4	SE 2	E 2	E 3	ENE 2
15	SE	5·2	E 3	SW 2	SW 3	Calm 0	Calm 0	EbyS 4	ESE 5	SE 2	E 3	E 2	E 2
16	SE	5·5	ESE 3	SSW 1	SW 2	Calm 0	SW 1	ESE 4	ESE 4	SE 2	E 3	E 2	SE 3
17	SE	9·5	E 1	SW 2	SW 3	Calm 0	Calm 0	EbyS 3	EbyS 3	SE 1	E 3	E 3	SE 4
18	ESE	8·3	E 2	Calm 0	SW 2	NW 1	Calm 0	EbyS 2	E 3	SE 2	E 3	E 3	SE 4
19	SE	6·0	SE 4	S 1	S 4	Calm 0	Calm 0	E 3	E 4	SE 2	ENE 3	NE 3	E 3
20	SE	5·0	E 4	SSW 1	SSW 3	NW 1	Calm 0	E 4	E 4	Calm 0	Calm 0	NW 3	NNE 3
21	SE	6·9	ESE 3	NE 1	SW 2	S 1	Calm 0	E 5	EbyS 4	Calm 0	W 3	SW 1	N 3
22	SE	6·3	SE 3	SW 2	SW 2	SW 1	Calm 0	..	ESE 3	Calm 0	SSE 3	SE 2	N 3
23	SE	3·4	SE 2	SSW 2	SSW 1	NW 2	S 2	ESE 4	ESE 3	Calm 0	SE 2	Calm 0	SW 3
24	SE	2·8	E 1	SW 2	SW 3	NW 1	NW 1	E 3	E 3	Calm 0	ENE 1	SE 3	Calm 0
25	SE	8·1	E 1	WSW 2	WSW 2	Calm 0	Calm 0	E 3	E 4	SE 4	ESE 1	Calm 0	SSE 4
26	SE	9·3	SSE 3	Calm 0	SW 2	NE 1	S 1	ESE 5	ESE 5	SE 4	SE 4	SE 5	SE 3
27	SE	8·5	ESE 4	SSW 1	SW 3	SW 1	Calm 0	ESE 5	ESE 5	Calm 0	ENE 4	E 1	SE 3
28	SE	11·6	ESE 4	SSW 2	SW 1	Calm 0	Calm 0	EbyN 5	EbyS 5	SE 4	SE 1	Calm 0	SE 4
29	SE	8·3	E 2	SSW 3	SW 2	Calm 0	Calm 0	EbyN 5	E 4	SE 4	ESE 1	E 3	ESE 4
30	SE	5·0	SE 3	WSW 1	SW 2	NW 1	S 2	E 3	EbyS 4	SE 4	ESE 3	S 1	SE 4
31	SSE	4·3	NW 1	SW 2	W 1	Calm 0	Calm 0	E 3	E 2	SE 2	ENE 3	ENE 1	
Mean	..	6·3	2·9	1·3	1·9	0·8	0·5	4·1	4·0	1·7	2·3	1·7	3·7
§Resultant	140° (93)	..	115° (81)	215° (68)		235° (8)		95° (97)		135° (65)	105° (67)		120° (60)
§Normal	141° (89)	8·1	‖123° (79)	250° (43)		250° (21)		‖‖93° (88)		135° (82)	‖105° (61)		103° (61)

‖ Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—AUGUST 1923.

‡‡*Arctic Sea.*—The route from Kara Strait to the Jenissey was free of ice and so was Dickson Harbour.

‡‡*Kara Sea* was free of ice to 75½° N. on the 10th. Later a wedge of ice was driven by the northerly winds south to Pachtussow Island, and on the 27th this ice reached to the coast a little north of Matotchkin Strait. The area covered was 46 × 10³ sq. km. as compared with a normal of 137 × 10³ sq. km.

‡‡*Barents Sea.*—Between Novaya Zemlya and Frans Joseph Land the sea was free of ice, but along Alexandra Land there was ice between the islands, and further west the edge passed south of King Charles Land and Edge Land. The area covered was 96 × 10³ sq. km. as compared with a normal of 320 × 10³ sq. km.

‡‡*Spitsbergen.*—The west coast and north coast to Seven Islands was free of ice, as also was the west side of Storfjord. There was close ice in Olga Strait and the southern part of Hinlopen Strait, while there was scattered ice in the northern part of this strait, along the east side of Storfjord, and from Seven Islands to Cape Leigh Smith. Open water was found along the north side of King Charles Land.

‡‡*Iceland.*—An iceberg 12 metres high was met with 18 miles to the east of Cape North. The normal duration of average ice conditions is 2 days visible.

‡‡*Greenland Sea and Denmark Strait.*—On the 8th, 9th and for some days after the 17th the sea was free of ice at Angmagsalik; but at other times there was a belt of "Storis" about 30 miles wide, 30 miles offshore. The *Conrod Holmboe* stuck in the ice in 74° N. on the 2nd and drifted with it, until on the 30th she was off Emperor Francis Joseph fjord. The area covered was 607 × 10³ sq. km. as compared with a normal of 551 × 10³ sq. km.

‡‡*N. Atlantic and Labrador.*—Three icebergs were observed on the Newfoundland Bank, south of the 48th parallel, the normal being 16. In Belle Isle Strait icebergs were numerous and reached to 120 miles east of Belle Isle.

‡‡*Davis Strait and Baffin Bay.*—Except for icebergs which were plentiful, the sea, from Cape Farewell to Upernivik, and along the Baffin Land coast from Cape Dier to Admiralty Inlet was free of ice. There was scattered ice in Frobisher Bay and Cumberland Sound, and vessels were able to get in to Ponds Inlet. Probably there was not as much "middle pack" as usual in the middle of Baffin Bay. Except for some icebergs, Hudson Strait was free of ice to Coats Island, but heavy and packed ice occurred everywhere in Ungava Bay. There was thus less ice than usual in these parts.

‡‡*Polar Sea.*—Scattered ice was met with round Wrangel Island and along the coast from Point Barrow to Demarcation Point, but Mackenzie Bay was free of ice.

‡‡ *Isforholdene ide arktiske Have*, 1923, published by the Danish Meteorological Institute

RÉSEAU MONDIAL, SEPTEMBER 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF SEPTEMBER 1923

BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N.

SEPTEMBER—ZONE 1.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1295	Barrow	71 23	156 17	7·0	..	..	..	273·1	279·1	23rd	268·7	259·1	28th	270·9	..	—1·5	12	— 1
1323	Inglefield Bay . . .	77 27	66 40	?	..	..	..	..	..		..	..		..	..	..	..	..
1324	Upernivik	72 47	56 7	19·2	1005·2	1007·6	— 0·8	277·3	283·1	1st	272·9	269·8	25th	275·1	*274·9*	+1·1	30	+ 3
1333	Germaniahavn . .	74 30	18 45	5·5	..	..	..	..	..		..	..		..	..	..	..	..
1335	Jan Mayen . . .	70 59	W 8 18	23·1	1000·9	1003·8	..	..	280·2	5th	273·2	268·1	22nd	..	*275·2*	..	60	..
1339	ϕSpitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1006·4	1007·8	— 0·1	..	279·8	13th	273·1	266·5	29th	..	274·6	+1·5	41	+ 17
1341	Björnöen	74 28	19 15	40·5	1001·1	1006·1	..	..	282·5	20th	274·8	272·4	28th	..	*276·1*	..	19	..
1342	Gjesvaer	71 6	25 22	6·5	1004·3	1005·1	— 2·9	..	287·5	20th	278·1	274·3	8th	..	*280·5*	+1·0	32	— 53
1343	Mehavn	71 1	27 47	4·6	1005·0	1006·0	— 2·2	..	285·8	2nd	276·9	273·3	8th	..	*279·6*	+0·1	33	— 50
	Vardö	70 22	31 8	6·8	1005·8	1006·6	— 2·2	..	284·4	16th	277·9	274·7	10th	..	*279·8*	+0·6	54	— 8
1347	Malye Karmakouly . .	72 23	52 43	14·8	1008·3	1010·1	+ 1·1	280·0	283·2	23rd	275·9	273·0	29th, 30th	278·0	*278·1*	+3·3	37	— 3
1348	Waigatz	70 24	58 47	11·2	1010·3	1011·7	+ 3·3	280·8	285·5	1st, 2nd	276·4	272·1	7th	278·6	*278·7*	..	39	..
1353	Dickson	73 30 N.	80 23 E.	13	1008·4	1010·0	..	278·5	282·6	1st	275·4	271·6	30th	277·0	..	..	16	..

Between Latitude 70° N. and 60° N.

SEPTEMBER—ZONE 2.

1593	Nome	64 30	165 24	6·7	..	1001·3	— 5·1	282·4	289·7	1st	276·9	264·1	30th	279·7	*279·4*	+1·4	113	+ 45
1604	Candle	65 55	161 57	2·4	..	..	..	282·9	293·0	10th	273·2	261·9	28th	278·1	..	+0·7	..	..
1605	Tanana	65 10	152 6	67·1	..	1004·7	— 3·6	283·1	292·4	3rd	275·1	263·6	28th	279·1	..	+1·4	88	+ 47
	Rampart	65 30	150 15	122	..	..	..	282·3	289·1	1, 2, 3	274·6	266·3	27th	278·4	..	+0·2	45	+ 10
1607	Valdez	61 7	146 16	8·2	..	..	..	282·6	290·8	1st	276·8	269·1	27th	279·7	..	—1·0	472	+257
1609	ϕEagle	64 46	141 12	254	..	1005·7	— 3·1	285·7	295·2	6th	274·7	267·4	24th	280·2	..	+1·6	32	0
1610	ϕDawson	64 4	139 29	324	968·4	1007·3	— 2·7	284·7	291·9	2nd, 14th	274·7	264·1	24th	279·7	..	+1·1	54	+ 16
1611	Carcross	60 11	134 34	662	..	..	..	..	..	..	..	..	..	..	..	..	76	+ 51
	Fort Good Hope . .	66 25	128 53	65·2	1001·3	1009·3	..	284·1	291·9	30th	273·7	263·6	19th	278·9	..	..	30	+ 12
	Fort Simpson . .	61 52	121 35	129	992·1	1007·7	— 3·7	290·4	298·0	14th	276·9	267·4	21st	283·7	..	+3·6	51	+ 16
1613	Hay River . . .	60 51	115 20	161	989·9	1009·3	— 1·4	287·9	298·6	14th	277·7	271·3	11th	282·8	..	+2·2	31	— 2
1625	Jacobshavn . . .	69 13	51 2	12·6	1005·1	1006·7	— 0·7	276·4	284·1	1st	271·9	266·9	25th	274·1	*274·3*	—0·7	50	+ 15
1626	Godthaab	64 11	51 43	20·4	1004·0	1006·5	+ 0·6	279·7	284·2	13th	274·6	271·1	25th	277·1	*276·2*	0·0	123	+ 40
1629	Ivigtut	61 12	48 10	13·0	1006·0	1007·6	+ 2·1	281·5	284·8	11th	274·8	270·0	24th	278·1	*277·8*	—0·2	200	+ 47
	Angmagsalik . . .	65 37	37 33	31·7	1002·6	1006·6	— 0·9	278·7	283·1	4th	271·5	266·3	30th	275·1	*274·2*	—2·0	41	— 57
1631	Stykkisholm . . .	65 5	22 46	25	1000·2	1003·3	— 3·4	281·6	285·8	7th	275·7	271·8	15th	278·7	*278·1*	—1·7	91	+ 22
1632	Vestmanno	63 24	20 17	132	985·5	1001·6	— 4·7	282·6	285·3	1st	270·9	273·3	20th	279·7	*279·0*	—1·5	153	+ 8
1634	Grimsey	66 33	18 1	22·0	1001·1	1003·8	— 4·0	278·9	284·4	1st	274·5	271·3	29th	276·7	*276·5*	—2·2	42	+ 8
1635	Teigarhorn (Berufjord)	64 41	14 22	18·0	1000·6	1002·8	— 4·6	281·4	287·5	1st	275·9	272·8	14th	278·7	*278·2*	—1·7	101	— 22
1636	ϕThorshavn . . .	62 3	6 45	26·3	999·5	1002·7	— 7·3	283·1	286·6	6th	278·2	274·0	24th	280·7	*280·6*	—1·4	165	+ 45
	Lerwick	60 9	W 1 11	18·0	..	1005·8	— 5·6	285·3	289·1	6th	280·8	276·9	25th	283·1	*283·1*	—0·3	136	+ 60
1637	Bergen (Met. Obs.) .	60 24	E 5 19	44·4	1001·3	1006·7	— 4·8	286·1	290·5	15th	280·9	278·8	14th	283·5	*283·2*	—1·0	330	+136
1638	Aalesund	62 28	6 10	6·3	1004·5	1005·3	— 5·1	..	291·4	18th	280·8	276·7	11th	..	*283·4*	—0·4	170	+ 13
1640	Trondhjem	63 26	10 25	39·5	1000·8	1005·6	— 4·8	285·9	291·2	15th	278·6	275·5	4th	282·3	*282·1*	—0·3	129	+ 45
1641	Bodö	67 17	14 24	22·3	1000·9	1003·6	— 5·9	..	290·8	16th	279·1	276·7	15th	..	*282·6*	+0·9	89	— 24
1642	Haparanda	65 50	24 9	9·2	1005·4	1000·5	— 4·0	283·5	289·5	1st	278·8	273·0	7th	281·1	*281·4*	+0·7	143	+ 83
1642a	ϕHelsingfors . . .	60 10	24 57	11·7	1009·1	1010·5	— 2·7	286·9	290·2	1st	281·8	278·0	30th	284·3	*284·1*	+0·4	96	+ 32
	Kuopio	62 54	27 40	90·3	997·6	1008·5	— 4·1	285·2	289·4	16th	280·2	274·6	7th	282·7	*282·8*	+1·0	110	+ 46
1643	Kola	68 53	33 1	6·7	1007·0	1007·8	— 1·7	283·5	289·7	17th	276·9	270·7	8th	280·2	*279·8*	+0·7	56	+ 19
1645	Petrozavodsk . .	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1646	Arkhangelsk . . .	64 34	40 31	6·3	1011·2	1012·0	+ 0·4	286·0	290·0	17th	279·6	272·6	7th	282·8	*282·4*	+1·4	61	+ 6
1647	ϕMezen	65 50	44 16	14·9	1010·2	1012·0	+ 1·7	284·9	290·0	1st	277·6	270·8	8th	281·2	*281·3*	+2·1	40	— 9
1648	Cost-Tsylma . . .	65 25	52 18	? 68	1005·2	1013·5	+ 2·9	285·8	295·7	1st	278·3	272·7	9th	282·0	*281·7*	+2·2	58	+ 4
	ϕTcherdyn . . .	60 24	56 31	?177	997·5	1019·0	+ 6·4	288·8	292·9	..	279·2	272·7	10th	284·0	*283·5*	+2·7	64	— 6
1649	Berezov	63 56	65 4	39·5	1014·4	1019·3	+ 8·3	286·7	293·0	1st	278·0	272·4	27th	282·4	*282·1*	+2·8	26	— 16
1651	Obdorsk	66 31	66 35	23·7	1012·3	1015·2	+ 4·9	284·7	292·8	1st	278·0	273·2	28th	281·4	*281·2*	+3·2	43	+ 3
1652	ϕSourgout	61 15	73 24	? 40	1012·4	1017·3	+ 5·0	..	295·1	4th	278·6	272·6	23rd	..	*283·3*	+2·6	67	+ 19
1654	Doudinka	69 23	86 4	20·0	1011·2	1013·8	+ 4·1	..	287·3	9th	277·3	268·5	29th	..	*280·0*	+3·5	40	— 6
	Touroukhansk . . .	65 47	87 57	45·0	1010·6	1016·0	+ 3·7	..	292·4	1st, 5th	278·3	267·3	20th	..	*282·3*	+4·5	59	+ 8
1661	Vilouisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1663	Iakoutsk	62 1	129 43	108	1001·4	1014·6	+ 2·4	..	288·8	1st	272·0	265·2	28th	..	*276·6*	—2·5	14	— 11
1672	Verkhoïansk . . .	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		° N.	° E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1004·4	− 1·5	282·1	286·3	3rd	278·3	274·1	26th, 29th	280·2	..	+0·1	93	− 2
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1005·1	− 2·5	285·3	290·8	20th, 23rd	279·1	274·1	30th	282·2	*281·8*	+0·6	94	− 60
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	286·3	294·1	11th	277·1	269·7	26, 27, 28	281·7	..	+0·4	123	+ 7
306	Kodiak (Radio)	57 46	152 22	6·1	..	1003·7	− 2·4	286·7	290·8	2nd	280·2	272·4	27th	283·4	*282·9*	+0·6	89	− 58
										Sea Temp.							
307	55°–50° N. 150°–145° W.	††51 34	††147 48	§ (25)	..	1012·5	− 5·1	..	..	285·2|0·0	..	..	..	..	285·2	−0·6	..	..
309	Sitka	57 3	135 19	27·4	..	1012·2	+ 1·2	289·2	298·6	10th	281·2	275·8	21st	285·2	*284·7*	+1·2	385	+127
310	Prince Rupert	54 18	130 18	51·8	1010·6	1016·9	+ 2·8	290·2	297·4	10th	282·4	277·4	19, 20, 22	286·3	*286·3*	+1·4	223	+ 15
311	Barkerville	53 2	121 35	1274	871·5	1015·8	+ 2·5	286·3	295·8	13th	274·7	268·0	22nd	280·5	*280·2*	+0·1	70	− 25
312	Kamloops	50 41	120 29	385	975·1	1020·5	+ 2·3	294·6	301·6	13th	280·8	273·6	22nd	287·7	*287·7*	+0·2	17	− 3
313	Calgary	51 2	114 2	1045	896·7	1014·9	+ 2·6	294·7	305·2	14th	276·3	268·0	22nd	285·5	*284·7*	+2·1	14	− 18
314	Fort Chipewyan	58 42	111 10	218	984·4	1010·6	− 1·3	288·0	295·8	8th	277·4	268·6	21st	282·7	*283·2*	+2·3	14	− 24
315	Prince Albert	53 10	105 38	442	962·7	1015·0	+ 2·1	290·8	297·4	14th	278·0	270·2	12th	284·4	*283·9*	+1·4	26	− 10
316	Qu'Appelle	50 30	103 47	645	938·6	1013·6	+ 1·1	292·4	303·0	2nd, 3rd	278·6	267·4	12th	285·5	*284·5*	+1·6	19	− 10
317	Minnedosa	50 15	99 50	515	953·6	1013·9	0·0	292·9	304·1	3rd	278·6	265·5	13th	285·8	*284·9*	+1·7	21	..
318	Berens River	52 18	97 23	216	..	..	..	290·4	298·6	5th	275·7	270·2	11th	283·1	..	−2·1	..	..
318a	ϕPort Nelson	57 0	92 51	14·9	1012·4	1014·2	+ 1·7	283·4	295·2	16th	274·4	266·9	14th	278·9	..	−1·0	198	+ 32
319	Fort Hope	51 33	87 49	‡260	982·7	1014·0	− 0·2	287·4	295·8	2nd	277·4	266·3	30th	282·4	*282·5*	+0·2	63	+ 1
320	ϕMoose Factory	51 14	80 30	9·1	1014·2	1015·3	+ 1·7	289·5	299·1	27th	277·9	‡271·3	19th	283·7	..	−0·1	59	− 11
321	Fort George	53 50	79 5	97·5	..	..	..	283·5	294·1	27th	276·2	272·4	24th, 30th	279·8	*280·1*	..	15	− 13
322	Mistassini Post	50 15	73 55	383	..	..	..	288·3	295·8	23rd, 24th	276·9	270·2	25th	282·6	..	+0·3	79	
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	288·3	293·0	19th	277·2	268·6	27th	282·7	..	+0·9	14	− 60
326	ϕBelle Isle	51 53	55 23	130	998·7	..	..	282·1	288·6	9th	277·3	273·6	25th, 26th	279·7	*279·7*	−1·0	47	− 97
										Sea Temp.							
331	55°—50° N. 30°—25° W.	††52 47	††27 26	§(46–47)	..	1012·7	..	..	..	285·6|−1·2	..	..	..	..	284·7	..	..	..
333	53°—48° N. 20°—15° W.	††51 7	††17 32	§(45–46)	..	1008·9	..	..	..	287·4|−1·2	..	..	..	..	286·0	..	..	..
333a	62°—57° N. 20°—15° W.	††60 1	††17 33	§ (53)	..	..	..	..	..	283·5|−1·2	..	..	..	..	283·0	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1014·8	− 0·8	287·6	290·2	29th	283·3	279·7	8th	285·4	285·7	−0·9	143	+ 31
335	Aberdeen	57 10	W 2 6	26·8	..	1007·4	− 0·1	287·3	294·7	30th	280·3	275·8	20th	283·8	283·9	−0·4	94	− 15
336	ϕGreenwich	51 28	0 0	46·3	..	1015·7	− 0·5	292·7	298·0	13th	281·6	276·9	17th	287·2	286·6	−0·2	30	..
337	Uccle	50 48	E 4 22	100	1004·8	1016·8	+ 0·4	292·8	302·2	13th	282·2	277·9	3rd	287·5	286·6	−0·3	63	+ 6
338	De Bilt	52 6	5 11	3·0	1015·4	1015·8	− 0·6	291·1	296·8	14th	281·7	276·0	4th	286·4	286·0	−0·8	73	+ 7
338a	Hamburg	53 33	9 58	40·3	1010·3	1015·2	− 0·9	290·0	299·2	14th	283·0	278·2	25th	286·5	*286·3*	−0·8	67	− 3
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1012·7	1013·3	− 2·0	288·9	294·0	15th	282·4	279·4	4th	285·7	*285·6*	+0·5	50	+ 20
340	Potsdam	52 23	13 4	84·9	1006·6	1016·8	0·0	292·1	301·7	15th	282·8	278·3	20th	287·5	287·0	+0·9	26	+ 50
340a	Uppsala	59 51	17 38	24	1006·5	1009·4	− 3·3	287·3	293·4	16th	279·1	273·1	14th	283·2	283·3	+0·1	110	..
341	Warsaw	52 13	21 3	89·9	1006·7	1017·5	− 0·8	293·4	303·5	1st	282·4	277·2	10th	287·9	287·4	..	20	+ 27
342	Tartu (Ülikooli)	58 23	26 43	74·5	1003·9	1012·9	− 1·3	289·2	296·3	16th	281·2	275·5	30th	285·2	284·7	+1·1	79	..
343	Petrograd	59 56	30 16	4·8	1011·6	1012·2	− 1·4	288·3	294·3	17th	281·6	276·9	8th	285·0	*284·8*	+1·2	43	+104
344	Kiiv	50 27	30 30	183	997·0	1018·7	+ 1·5	294·4	302·4	2nd	284·5	278·0	10th	289·4	*288·8*	+2·4	149	+ 17
344a	Moscow	55 50	37 33	167	998·8	1018·9	+ 2·9	290·3	297·2	2nd	280·8	275·2	15th	285·6	*285·3*	+2·4	38	..
345	Saratov	51 33	45 57	122	1007·8	1022·5	+ 6·1	295·9	302·0	1st	282·3	275·3	9th	289·1	*288·9*	+3·3	11	− 20
346	Kazan	55 47	49 8	79·9	1013·2	1022·9	+ 6·8	292·5	297·1	25th	282·1	277·4	16th	287·3	*286·7*	+2·7	35	+ 10
347	Orenburg	51 45	55 6	109	1010·3	1023·5	+ 5·7	294·9	301·6	7th	280·2	273·9	19th	287·6	*287·3*	+1·2	6	− 17
348	Perm	58 1	56 16	163	1002·2	1022·0	+ 7·6	290·2	295·5	30th	279·4	273·2	10th	284·8	*284·1*	+2·0	43	..
349	Sverdlovsk	56 50	60 38	281	987·4	1021·3	+ 7·1	289·9	296·6	8th	278·5	273·3	23rd	284·2	*283·7*	+1·9	26	− 12
350	Tobolsk	58 12	68 14	108	1006·4	1019·5	+ 4·9	289·3	295·2	5th	279·8	273·0	28th	284·6	*283·9*	+1·5	38	+ 15
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	289·9	303·6	12th	278·3	270·8	29th	284·1	*284·1*	−0·1	40	+ 10
352	Omsk	55 1	73 19	108	1004·2	1017·3	+ 1·3	289·7	302·4	9th	279·5	271·3	29th	284·6	*284·0*	+0·4	48	+ 10
353	Barnaoul	53 20	83 48	162	998·7	1018·3	+ 1·0	290·2	302·9	13th	279·4	270·9	25th	284·8	*284·4*	+0·8	46	− 5
354	Tomsk	56 30	84 58	122	1002·3	1017·1	+ 1·1	..	297·6	4th	278·5	272·9	24th	..	*283·9*	+1·8	35	..
355	ϕMinousinsk	53 43	91 41	248	988·2	1018·0	+ 0·2	..	297·4	14th	278·7	270·3	31st	..	*284·9*	+1·8	23	− 5
356	Eniseisk	58 27	92 10	77·6	1008·0	1017·6	+ 1·7	..	293·1	1st	275·7	270·2	25th	..	*282·1*	+0·6	37	− 25
357	Irkutsk	52 16	104 19	467	962·4	1018·4	+ 0·2	288·8	298·2	14th	275·1	268·6	27th	282·0	281·7	+0·8	19	..
358	Kirensk	57 47	108 7	**278	986·3	1019·9	+ 3·9	..	293·8	1st	275·5	267·5	20th	..	*281·6*	+1·5	..	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	967·9	1013·6	+ 0·6	287·0	294·6	9th	272·0	263·9	20th	279·5	*279·2*	−0·6	45	− 21
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	994·7	1011·8	− 0·7	289·6	297·2	9th	278·5	270·9	20th	284·0	*283·7*	−1·4	50	..
363																		
364																		
365	Nikolaevsk–sur–Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	999·1	1009·7	− 0·5	284·4	291·6	8th	278·5	275·0	14th, 21st	281·4	*281·0*	−1·1	131	+ 29
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 106 and 107. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.
** Height changed from 263 m. to 278 m., from September 1st.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
411	Victoria, B.C.	48 24	123 19	70·1	1009·1	1017·5	+ 1·1	292·2	300·4	11th	283·1	279·9	23rd	287·7	286·8	+1·3	37	− 9
412	Portland, Oregon	45 32	122 41	46·6	1011·4	1016·6	+ 0·1	296·7	308·0	7th	285·4	280·2	27th	291·1	*290·8*	+2·0	15	− 32
413	Macleod	49 44	113 24	953	..	..	..	295·7	303·0	1st, 15th	277·6	269·1	22nd	286·6	*286·4*	+2·0	5	− 27
414	Helena	46 34	112 4	1253	875·7	1016·2	+ 1·2	294·7	303·6	2nd	280·5	275·2	23rd	287·6	*288·2*	+1·4	4	− 27
415	Salt Lake City	40 46	111 54	1329	868·4	1014·5	+ 0·7	296·9	305·8	10th	284·8	275·2	27th	290·9	*291·4*	−0·4	36	+ 12
416	Cheyenne	41 8	104 48	1856	815·3	1015·2	− 0·1	292·7	300·8	9th	279·7	274·7	7th	286·2	*286·9*	−0·6	71	+ 42
416a	North Platte	41 8	100 45	860	918·4	1016·6	+ 0·7	298·1	305·8	3rd	283·3	277·4	29th	290·7	*290·3*	+0·3	22	− 13
417	Bismarck	46 47	100 38	510	955·7	1015·6	+ 0·7	295·8	307·4	3rd	282·4	274·1	13th	289·1	*289·3*	+1·6	72	+ 40
418	Winnipeg	49 53	97 7	232	986·4	1013·9	+ 0·2	294·7	303·6	1st	281·3	270·2	13th	288·0	*287·3*	+2·9	28	− 28
	Duluth	46 47	92 6	345	976·1	1017·3	+ 2·0	291·1	300·2	27th	282·1	271·9	13th	286·6	*286·3*	+0·6	66	− 21
419	Port Arthur	48 27	89 12	196	993·7	1017·3	+ 1·6	289·1	299·1	27th	280·2	273·6	13, 14, 15	284·7	*284·4*	+0·1	68	− 16
420	Chicago	41 53	87 37	251	988·6	1018·6	+ 0·9	294·4	299·7	27th	288·4	278·6	14th	291·4	*291·7*	−0·7	64	− 15
422	Toronto	43 40	79 24	116	1005·1	1019·0	+ 1·2	293·6	301·8	1st	283·9	276·1	14th	288·7	288·5	0·0	68	0
423	ϕNew York (Central Park)	40 47	73 58	47·4	1014·0	1019·6	+ 0·7	297·7	303·0	1st	288·6	281·9	15th, 17th	293·1	292·8	+0·3	67	− 23
424	ϕSt. John, N.B.	45 17	66 4	36·2	1014·6	1019·0	+ 1·5	289·9	295·5	1st	281·9	278·3	15th	285·9	285·5	−0·4	67	− 28
424a	S.W. Point, Anticosti	49 24	63 33	9·1	1015·7	1016·8	+ 3·5	285·0	288·6	16th	280·2	273·6	26th	282·6	*282·7*	+0·3	39	− 30
	Sable Island (Main Station)	43 57	60 6	7·6	1017·3	1018·2	+ 0·6	289·1	291·9	1, 3, 13	285·2	281·3	26th, 27th	287·2	*287·1*	−1·1	81	− 4
425	Port aux Basques	47 35	59 10	9·1	1016·6	1017·7	+ 2·3	287·4	293·6	1st	280·8	273·0	26th, 27th	284·1	*283·8*	−0·2	107	− 7
426	St. John's, Newfoundland	47 34	52 42	48·8	1011·7	1017·6	+ 3·0	288·6	296·9	1st	280·2	273·6	26th	284·4	*284·3*	−0·7	74	− 22
										Sea Temp.							
430	50°—45°N. 35°—30°W.	††48 44	††32 54	§(25)	..	1014·5	..	..	..	287·9|−1·9	..	..	..	..	287·1	..	..	..
435	Madrid	40 24	3 41	667	943·6	1019·9	+ 3·9	296·9	301·8	27th	285·1	280·4	19th	291·0	*290·0*	−0·6	19	− 18
436	Nantes	47 15	W 1 34	36·5	1014·7	1019·2	+ 1·5	294·7	304·0	12th	282·2	278·0	4th, 6th	288·5	288·2	−0·4	20	− 34
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1013·0	1019·2	+ 1·4	294·2	302·9	12th	282·7	277·9	4th	288·5	288·1	+0·4	65	+ 12
438	Marseille	43 18	5 23	75	..	1018·2	+ 2·0	297·4	301·0	9th	285·6	281·5	25th	291·5	*291·0*	−1·1	58	− 3
438a	Zürich	47 23	8 33	493	962·6	1020·3	+ 1·8	294·3	302·1	13th	281·9	277·3	25th	288·1	287·1	+0·1	73	− 30
439	Vienna	41 54	12 27	45·5	1013·2	1018·4	+ 1·7	299·4	305·9	3rd	290·0	286·3	21st	294·7	*294·3*	+0·4	91	+ 26
440	Budapest	48 15	16 22	203	995·3	1019·5	+ 1·9	292·1	298·2	13th	283·8	279·0	26th	287·9	287·6	−0·9	50	0
440a	ϕSofia	47 31	19 2	130	1003·7	1019·2	+ 1·7	297·3	306·0	1st	284·3	280·3	26th	290·8	289·9	+1·0	26	− 29
442	Bucharest	44 25	26 6	82	1009·1	1018·8	+ 1·3	300·6	308·0	3rd	285·0	280·2	29th	292·8	292·1	+1·6	3	− 37
443	Odessa (Observatory)	46 26	30 46	42·8	1013·8	1018·8	+ 0·9	296·2	303·0	5th	287·4	281·6	8th	291·8	*291·5*	+1·7	3	− 29
444	Kharkiv (University)	50 0	36 14	140	1003·1	1019·6	+ 1·6	297·1	305·4	2nd	283·3	274·9	10th	290·2	*289·9*	+3·6	6	− 26
444a	Novorossiisk	44 44	37 49	37·1	1012·6	1016·9	+ 0·9	299·4	307·0	3rd	290·0	283·8	30th	294·7	*294·8*	+2·9	17	− 41
445	ϕTiflis	41 43	44 48	404	972·3	1019·5	+ 3·3	297·5	303·6	7th	287·3	282·7	13th	292·4	*292·0*	−0·1	4	− 46
446	Astrakhan	46 21	48 2	— 20	1024·2	1021·8	+ 3·9	296·8	304·8	1st	286·3	281·2	11th	291·6	*291·8*	+1·8	5	− 9
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1024·0	1021·3	+ 4·6	297·6	300·8	6th, 7th	288·8	283·3	12th	293·2	*293·0*	+1·2	2	− 13
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1019·9	1019·4	+ 4·1	300·5	305·4	8th	292·4	284·6	26th	296·4	*296·3*	−0·2	.0	− 6
449	Kasalinsk	45 46	62 7	66·7	1013·4	1021·4	+ 4·9	..	..	..	282·5	275·8	19th	..	*289·4*	−0·1	2	− 6
450	Tashkent	41 20	69 18	478	962·3	1017·6	+ 3·3	298·9	307·1	10th	282·6	277·1	20th	290·8	*290·2*	−1·9	0	− 4
452	Narynskoe	41 26	76 2	†2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Alma Ata	43 16	76 53	841	922·4	1018·1	+ 3·1	293·8	303·4	12th	281·9	273·6	25th	287·8	*287·7*	−1·1	48	+ 21
465	ϕMoukden	41 48	123 23	43·8	1008·4	1013·6	− 0·4	295·8	301·6	12th, 18th	282·8	275·4	21st	289·3	288·7	−0·6	30	− 54
465a	Joshin	40 40	129 11	31·9	1009·2	1013·0	− 0·7	294·8	299·3	3rd	286·2	279·9	21st, 28th	290·5	290·6	0·0	27	−107
465b	Yuki	42 20	130 24	65·6	1005·3	1013·1	− 0·9	294·0	298·7	5th	284·4	278·2	27th	289·2	289·2	−0·3	11	−120
465c	Vladivostok	43 7	131 53	128	998·0	1013·3	− 1·0	292·5	297·5	2nd	284·8	279·3	22nd	288·6	*288·3*	−1·3	62	− 50
465d	Ochiai	47 20	142 47	27·4	1008·2	1011·5	− 1·2	290·9	298·5	7th	280·4	272·4	24th	285·7	285·7	+0·4	244	+118
465e	Nemuro	43 20	145 35	26·7	1008·5	1011·7	− 2·2	292·6	297·0	14th	286·2	278·9	23rd	289·4	289·5	+1·4	407	+266
465f	Syana	45 14	147 53	39·3	1007·4	1012·1	− 2·0	291·8	297·9	8th	283·2	275·9	23rd	287·5	287·5	+1·2	214	+119
		N.	E.															

Between Latitude 40° N. and 30° N.

SEPTEMBER—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
398	35°—30° N. 145°—140°W.	††31 22	††142 12	§(18)	..	1020·3	− 2·0	..	..	Sea Temp. 295·2|+0·6	..	..	..	..	294·7	+0·6	..	..
212	San Francisco	37 48	122 26	47·2	1008·4	1014·2	− 0·1	295·0	303·6	5th	286·5	284·1	10th	290·8	*289·7*	+2·3	11	+ 3
212a	San Luis Obispo	35 18	120 39	61·3	1007·2	1014·5	+ 0·4	299·0	308·6	6th	284·5	279·7	24th	291·8	*290·1*	+1·3	18	+ 11
213																		
214	San Diego	32 43	117 10	26·5	1010·1	1013·2	+ 0·9	296·3	302·4	5th	289·9	284·7	27th	293·1	*292·6*	+0·7	1	− 1
215	Modena	37 48	113 54	1670	834·8	1014·2	+ 0·3	296·9	305·8	9th	278·3	269·7	27th	287·6	*287·5*	−1·0	12	− 14
216	Santa Fé	35 41	105 57	2138	790·7	1014·2	+ 0·2	294·2	298·6	10th	281·3	275·2	28th	287·8	*287·4*	−1·1	28	− 11
217	Denver	39 45	105 0	1613	839·6	1015·9	+ 0·4	293·2	303·0	9th	282·6	277·4	29th	288·9	*289·2*	−1·0	19	− 7
218	Abilene	32 23	99 40	530	954·3	1014·2	− 0·5	304·1	308·6	1st	292·1	286·9	21st	298·1	*297·1*	+1·0	28	− 37
	Saint Louis	38 38	90 12	173	996·7	1017·3	− 0·2	297·8	304·1	28th	289·4	281·3	14th	293·6	*293·6*	−0·6	89	+ 8
219	Mobile	30 41	88 2	17·4	1014·5	1016·6	+ 0·7	304·4	305·8	12th	294·6	290·2	23rd	299·5	*298·7*	+1·4	12	−121
221	Nashville	36 10	86 47	166	999·2	1018·6	+ 0·7	300·2	304·1	26th	290·1	281·9	16th	295·1	*294·9*	−0·1	37	− 51
222	Charleston	32 47	79 56	14·6	1016·0	1017·6	+ 0·2	302·0	308·0	6th	294·9	289·7	16th	298·4	*298·5*	+0·8	54	− 72
223	Washington	38 54	77 3	34·1	1015·2	1019·3	+ 0·6	298·8	303·6	3rd	289·1	279·7	17th	293·9	*293·7*	+0·8	80	− 7
224	Bermuda	32 17	64 46	46·0	1011·9	1017·2	− 0·1	301·3	303·6	13th	295·2	289·7	30th	298·2	*298·2*	−0·7	112	− 20
230	Santa Cruz (Flores)	39 27	31 9	40	1019·0	1024·0	+ 1·7	297·6	300·3	22nd	292·4	290·1	12th	295·0	*295·0*	+0·8	61	− 45
231	ϕHorta	38 32	28 38	65	1016·1	1023·9	+ 2·4	298·5	301·4	6th	291·6	289·2	13th	295·1	294·5	+0·3	34	− 52
232	Ponta Delgada	37 44	25 40	22	1021·0	1023·5	+ 2·5	296·8	298·3	20th	292·1	289·8	1st	294·5	294·3	+0·5	..	..
233	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	..	..
234	Madeira (Funchal)	32 38	16 55	25	‡1018·4	‡1021·3	+ 2·1	298·3	304·0	5th	292·3	291·0	9, 18, 19	295·3	*295·2*	+0·3	7	− 75
235	Lisbon	38 43	9 9	95	1008·7	1019·9	+ 2·7	298·3	304·9	8th	289·8	296·4	20th	294·0	293·6	+0·4	19	− 23
236	Melilla	35 17	2 59	40	..	..	..	300·1	307·2	1st	291·9	285·6	19th	296·0	*297·7*	−2·0	13	− 17
236a	Gibraltar	36 6	5 21	16·2	..	1019·4	+ 1·9	297·2	301·9	1st	291·2	285·2	17th	294·2	*293·9*	−1·3	35	− 10
236b	Colomb-Béchar	31 36	2 4	769	932·6	1017·0	..	306·6	312·0	2nd	291·9	286·0	18th	299·3	*298·6*	..	4	0
		N.	W.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

SEPTEMBER—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1016·2	1018·9	+ 0·7	298·8	301·8	8th	289·0	286·6	21st, 29th	293·9	...	−2·4	66	+ 14
538	Algiers (Bouzaréah)	36 47	3 2	344	979·3	1019·1	+ 2·8	295·7	300·7	3rd	290·7	286·9	18th	293·2	*292·9*	−1·5	40	+ 10
539	ϕTunis	36 48	10 10	21	1015·3	1017·8	..	301·6	310·4	3rd	291·1	287·0	22nd	296·3	*295·8*	−0·8	21	− 3
539a	Malta	35 53	14 30	56·4	..	1018·0	+ 2·1	299·3	303·6	1st	294·6	291·9	23rd	296·9	*296·2*	−0·5	13	− 5
540	Riposto	37 41	15 14	14·2	..	1020·1	+ 2·3	300·6	304·4	3rd	293·4	291·0	21st	297·0	*296·6*	+0·2	15	− 15
541	Athens	37 58	23 43	107	1003·6	1015·9	+ 0·8	303·1	308·5	19th	293·0	288·2	30th	298·0	298·2	+2·0	0	− 1
542	ϕAlexandria	31 12	29 53	32·0	1009·0	1012·7	− 0·9	303·5	306·0	4th	296·1	294·4	27th	299·8	*298·9*	+0·7	0	..
543	Nicosia (P.W.D.)	35 9	33 22	159	991·8	1009·6	− 1·1	307·1	313·0	6th, 7th	292·2	288·0	16th	299·6	...	+1·7	1	+ 7
544	Beirut	33 54	35 28	33·7	..	1010·0	− 1·9	302·8	307·5	5th	296·8	292·8	21st	299·8	*299·7*	+0·7	11	+ 4
545	Hinaidi	33 17	44 29	32·3	..	1006·9	− 0·5	313·3	316·7	11th	293·6	290·1	23rd	303·4	*304·4*	..	0	− 33
546	Lenkoran	38 46	48 52	— 20·0	1021·6	1019·2	+ 3·2	..	300·6	8th	288·6	286·6	5th	..	*293·4*	−1·1	49	+ 10
547	Tehran	35 41	51 25	1220	..	..	..	299·9	306·1	1st	288·4	284·2	30th	294·2	*294·0*	−3·8	12	− 1
548	Meshed	36 16	59 35	946	882·9	..	..	298·6	306·6	1st	280·3	274·4	30th	289·4	..	−2·5	0	..
549	Seistan	31 0	61 30	610	..	..	..	303·7	312·9	2nd	291·7	283·7	30th	297·7	..	..	0	− 2
550	Quetta	30 11	67 3	1677	832·3	..	+ 0·5	301·4	307·0	2nd	281·2	273·4	30th	291·3	*291·1*	−1·5	0	− 1
551	Peshawar	34 2	71 37	339	968·6	1006·5	+ 0·4	308·2	312·1	12th	294·3	289·1	30th	301·3	*300·7*	−0·1	20	+ 60
551a	Lahore	31 34	74 20	214	981·0	1004·9	− 0·1	309·8	311·7	13th	296·1	292·0	28th	302·9	*302·4*	+0·1	0	..
552	Simla	31 7	77 8	2204	781·0	..	+ 0·2	291·1	292·9	8th, 12th	286·3	283·6	23rd, 24th	288·7	*288·5*	−1·0	172	+ 14
552a	Leh	34 10	77 42	3503	666·5	..	− 0·8	292·3	296·9	2nd	277·7	273·7	21st	285·0	*283·8*	−1·3	0	..
559	Hankow	30 35	114 17	37·0	1008·6	1012·9	− 0·4	301·7	308·1	1st	293·1	288·3	29th	297·4	*297·1*	0·0	16	− 20
560	ϕTientsin	39 10	117 10	5·0	1013·8	1014·4	− 0·5	298·5	305·7	16th	289·5	282·4	27th	294·0	*293·7*	−0·2	37	− 14
561	ϕShanghai (Zi-ka-Wei)	31 12	121 26	7	..	1011·2	− 1·0	301·5	306·8	2nd	291·8	286·0	28th	296·7	295·6	−0·2	48	+ 27
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1004·5	1012·4	− 0·4	297·6	302·6	1st	288·7	282·0	28th	293·2	292·7	−0·6	140	+ 213
562a	Nagasaki	32 44	129 52	133	993·2	1008·4	− 3·0	300·6	305·6	11th	293·2	288·8	29th	296·9	296·7	+0·2	431	+ 88
563	Kyoto	35 1	135 44	42·9	1004·1	1009·1	− 2·9	301·5	307·3	12th	291·8	282·0	29th	296·7	296·0	+0·8	286	+ 29
564	Tokyo	35 41	139 46	5·8	1009·3	1010·0	− 3·2	300·7	304·9	9th	292·7	285·4	29th	296·7	296·4	+1·5	259	+ 229
565	Kanayama	37 53	140 46	24·6	1008·0	1010·9	− 2·8	298·5	304·6	2nd	290·1	281·5	29th	294·3	293·7	+1·3	452	+ 135
566	Miyako	39 38 N.	141 59 E.	30·4	1007·3	1010·9	− 2·6	297·0	302·0	8th	289·5	281·4	29th	293·3	292·8	+1·4	351	..

SEPTEMBER—ZONE 6.

Between Latitude 30° N. and 20° N.

		N.	W.															
601	Midway Island	28 15	177 22	5·8	..	1013·9	− 2·2	302·4	304·7	9th	294·1	290·2	17th	298·2	*297·7*	..	188	..
605	Honolulu	21 19	157 52	11·6	1013·7	1015·0	− 0·7	301·6	303·6	..	296·7	294·7	..	299·1	*298·9*	+0·5	21	− 18
614	La Paz	24 10	110 20	12	1009·1	1010·4	..	305·5	308·0	22nd	297·5	293·4	19th	301·5	...	..	16	..
615	Chihuahua	28 38	106 4	1423	860·1	1010·8	..	298·9	304·0	26th	287·9	286·0	9th, 17th	293·4	*295·2*	−0·5	181	+ 105
616	ϕLeon	21 7	101 41	1809	823·6	1012·2	+ 1·7	300·4	302·0	25th	285·4	282·5	28th	292·9	*292·3*	−0·3	176	+ 62
616a	ϕMonterry	25 40	100 18	528	953·6	1012·6	+ 0·3	301·8	308·9	1st, 2nd	294·1	292·5	13, 21, 22	297·9	*296·9*	−0·9	438	+ 100
617	Tulancingo	20 5	98 22	2181	790·8	..	..	296·6	299·4	3rd	282·9	280·2	25th	289·7	*288·5*	−0·8	19	+ 50
618	Galveston	29 18	94 50	16·5	1014·1	1016·2	+ 0·8	302·1	304·1	2nd	296·9	293·0	15th	299·5	*299·5*	+0·1	252	+ 50
618a	ϕNew Orleans	29 57	90 4	16·2	..	1016·2	+ 1·0	304·4	306·3	30th	296·2	291·9	23rd	300·3	*300·0*	+1·3	67	..
619	Merida, Yuc.	20 58	89 38	22	1011·1	1013·6	0·0	304·6	306·2	10th	295·9	294·4	9th	300·3	*299·2*	−0·2	144	+ 46
620	Havana	23 8	82 21	24·3	..	1015·0	+ 1·1	304·3	305·5	21st	296·8	295·0	16th	300·6	*300·2*	+0·5	170	+ 46
620a	Key West	24 33	81 48	6·7	1013·7	1014·5	+ 0·5	303·8	305·2	12th	298·1	295·2	24th	300·9	*300·5*	−0·1	126	+ 37
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1014·5	+ 0·1	303·6	..	..	298·6	..	..	301·1	*301·3*	+0·4	161	..
622	Watling Island	24 6	74 26	33·5	1011·0	1014·8	+ 0·3	..	305	6, 10, 17	..	294	25th	..	*299·2*	..	..	..
633	Izaña	28 19	16 30	2367	772·4	..	..	290·0	294·1	12th	282·1	275·4	15th	286·0	*285·6*	−0·8	6	− 10
634	La Laguna	28 28	W16 20	547	955·7	1018·2	+ 1·7	297·9	304·3	8th	288·1	284·8	4th	293·0	*292·3*	−0·8	3	..
641	Siwa	29 12	E25 29	— 23	1016·4	1013·8	..	308·2	311·0	sev. dates	290·9	288·0	25th, 30th	299·6	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	998·3	1011·5	− 0·7	304·7	308·3	6th	293·2	290·7	25th	298·9	*298·6*	0·0	0	..
643a	Aswan	24 2	32 53	99·6	997·2	1008·4	− 0·1	313·1	317·8	28th	296·4	292·0	25th	304·8	*304·2*	+0·8	..	..
644	Tor	28 14	33 37	1·9	1007·9	1008·2	− 0·3	305·1	310·0	6th	296·6	292·0	26th	300·8	*300·6*	+1·1	0	..
647	Bushire	28 59	50 53	4·3	1006·4	1007·0	+ 1·2	306·6	310·3	30th	298·3	295·8	15th	302·5	*302·0*	−0·8	0	..
648	Jask	25 44	57 47	4·0	1006·8	1007·3	+ 1·1	309·3	314·9	20th	300·6	296·9	26th	304·9	*304·4*	+1·3	0	..
649	Karachi	24 53	66 57	4·0	1005·9	1006·4	− 0·3	303·6	306·8	21st	297·4	291·6	29th	300·5	*300·0*	+0·3	0	..
650	Jacobabad	28 17	68 29	56·7	998·7	1005·1	+ 0·7	312·0	314·5	22nd, 23rd	297·1	288·6	30th	304·6	*304·0*	−0·6	0	..
651	Jaipur	26 56	75 52	436	958·4	1006·7	+ 0·2	307·7	310·0	28th	295·3	292·4	26th	301·5	*300·7*	−0·3	3	..
652	Nagpur	21 8	79 5	310	972·1	1006·6	+ 0·2	304·2	306·3	17th	296·2	293·8	26th	300·2	*299·5*	−0·2	328	+ 38
653	Allahabad	25 25	81 51	94·2	995·9	1006·0	+ 1·2	306·4	309·7	13th	298·4	296·8	1st	302·4	*301·7*	+0·3	178	− 3
653a	Darjeeling	27 3	88 18	2265	776·9	..	− 0·1	291·7	293·6	26th	286·6	285·3	27th	289·2	*289·0*	+0·4	338	+ 120
654	Calcutta	22 36	88 23	6·4	1005·9	1006·8	+ 1·0	305·2	306·2	18th	298·9	297·7	1st	302·1	*301·9*	+0·8	133	+ 117
655	Gauhati	26 8	91 41	59·7	1000·7	1007·6	0·0	304·6	307·1	28th, 29th	297·7	295·9	29th	301·1	*300·2*	−0·2	60	+ 39
655m	Cherrapunji	25 15	91 42	1313	867·7	..	+ 0·6	295·9	299·6	28th	291·5	290·2	14th	293·7	*293·2*	+0·2	1004	+ 256
655a	Akyab	20 11	92 56	6·1	1007·2	1008·0	+ 0·3	303·3	304·7	14, 17, 28	297·9	295·7	5th	300·6	*300·5*	−0·2	270	− 12
656	Mandalay	21 59	96 0	76·2	1000·2	1008·7	+ 0·4	307·3	310·2	10th	298·3	296·3	29th	302·8	*302·0*	+0·4	134	+ 15
656a	Tengyueh	25 2	98 33	1626	834·7	1005·5	+ 1·2	296·3	299·1	26th	289·1	286·9	14th	292·7	*291·9*	0·0	164	+ 103
657	ϕPhu Lien	20 48	106 38	116	995·1	1008·3	+ 0·4	304·6	307·0	1st	297·6	295·1	10th	301·1	300·6	+0·8	159	+ 172
658	ϕMoncay	21 31	107 51	9·0	1007·3	1008·4	+ 0·6	305·0	308·4	15th	296·7	293·8	12th	300·8	*300·8*	+0·1	442	+ 50
659	ϕHongkong	22 18	114 10	33·2	..	1008·2	− 0·2	302·9	305·3	7th	298·2	295·8	30th	300·5	300·3	+0·4	160	..
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1007·2	1008·2	− 0·9	302·4	307·8	4th	294·6	290·2	17th	298·5	297·9	−1·3	182	+ 23
661a	Basco	20 28	121 59	18·7	..	1004·4	− 1·9	301·7	303·9	20th	298·6	297·0	15th, 19th	300·1	*300·2*	−0·4	56	+ 16
662	ϕNaha	26 13	127 41	10·5	1003·9	1005·1	− 3·8	303·1	305·5	19th	297·1	293·4	17th	300·1	299·9	+0·3	200	+ 100
665	Titizima (Bonin Islands)	27 5 N. ° ′	142 11 E. ° ′	4·0 metres.	1006·5 mb.	1006·9 mb.	− 4·8 mb.	302·8 a.	304·6 a.	3rd	297·9 a.	295·2 a.	30th	300·3 a.	300·3 a.	+0·6 a.	232 mm.	+ 100 mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

SEPTEMBER—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	956·2	1011·6	..	304·8	306·7	6th	293·5	291·8	30th	299·1	*298·3*	+1·2	104	..
716	Morelia	19 42	101 7	1923	811·3	1011·4	..	295·7	298·0	3rd	286·5	284·3	27th	291·1	*290·5*	+0·3	68	..
717	Mexico, Tacubaya	19 24	99 12	2309	775·5	..	+ 0·6	297·6	299·5	10th	283·5	280·7	27th	290·5	289·3	+0·8	50	− 53
718	ϕSalina Cruz	16 12	95 12	56	1004·0	1010·4	− 1·3	305·3	307·0	20th	297·3	295·3	9th	301·3	*301·2*	+1·0	15	− 95
719	ϕSan Salvador	13 42	89 12	682	936·7	1012·3	+ 0·6	304·2	305·4	10th	291·1	289·5	2nd	297·7	*296·0*	−0·1	525	+ 232
720	Belize	17 29	88 12	5·2	1011·6	1012·2	+ 0·5	303·9	304·7	12, 15, 22	296·7	293·0	26th, 27th	300·3	*299·8*	−0·6	74	− 127
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1012·5	+ 0·5	304·3	305·9	6th	295·7	293·9	3rd	300·0	*299·7*	+0·1	219	+ 43
722	Port au Prince	18 33	72 20	37·4	1009·2	1013·5	+ 0·3	305·9	308·3	7th	295·6	293·8	10th	300·7	*300·2*	+0·2	218	+ 33
723	Caracas	10 30	66 56	1042	899·3	1013·3	+ 0·5	300·5	302·2	20th	288·8	287·4	8th	294·7	*293·2*	−0·1	76	− 27
724	Montserrat	16 41	62 9	36·6	1009·5	1013·0	− 0·1	305·3	306·9	11, 14, 16	296·8	294·1	12th	301·1	*300·5*	+0·6	54	− 111
724a	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡994·7	‡1012·5	+ 0·3	302·8	304·7	4th	296·8	294·1	11th	299·8	*299·2*	0·0	118	− 86
725	Barbados	13 8	59 36	55·2	..	1012·8	− 0·1	302·6	303·7	27, 28, 29	..	..	..	..	*299·6*	+0·1	113	− 84
731	São Vicente, C. Verde Is.	16 54	25 4	11	1011·1	1012·3	− 0·8	301·1	302·0	7, 17, 23	295·0	293·0	12th	298·0	*298·8*	−0·2	48	9
732	San Tiago, C. Verde Is.	14 54	23 31	34	1008·7	1012·6	− 0·9	302·2	303·4	23rd	297·8	296·5	15th	300·0	*300·0*	+0·1	79	− 29
733	Bathurst	13 27	16 34	1·8	1013·5	1013·7	+ 0·5	303·3	305·2	19th	296·1	294·7	1, 9, 14	299·7	*300·1*	+0·1	168	− 87
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	304·9	309·1	6th	296·4	294·1	18th	300·7	..	+0·4	377	+ 151
735	Niénébalé	12 57	7 20	300	..	..	..	303·7	305·8	27th	293·9	292·0	11th	298·8	..	..	144	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	311·2	315·4	19th	296·4	293·2	7th	303·8	*302·8*	−1·7	34	− 3
737	ϕSokoto	13 2	E 5 14	353	..	..	..	307·0	310·2	18, 27, 29	294·7	292·4	23rd	300·9	*300·1*	+0·6	89	− 30
738	Kaduna Capital	10 32	7 25	637	945·8	1016·8	+ 2·1	301·4	304·7	28th	..	..	..	..	‡*296·4*	+0·1	229	− 56
739	Hadejia	12 40	10 5	?	..	..	..	305·9	309·7	4th	295·3	293·0	28th	300·6	*299·8*	0·0	115	+ 43
740	ϕMaiduguri	11 47	13 11	361	..	..	..	306·9	309·7	26, 28, 30	295·1	293·0	13, 17, 28	301·0	*300·3*	0·0	88	− 15
741	El Fasher	13 32	25 18	730	..	..	..	308·9	311·7	21st	294·1	292·3	14th, 15th	301·5	*299·5*	..	2	..
743	El Obeid	13 11	30 14	569	946·4	1009·1	0·0	307·8	310·8	22nd	294·5	292·5	26th	301·2	*300·5*	+0·8	52	− 35
744	ϕKhartoum	15 37	32 33	390	904·8	1007·8	− 0·2	..	..	..	297·4	294·9	9th	..	*304·0*	−0·8	9	− 9
744a	Port Sudan	19 37	37 13	5·5	1006·3	1007·0	− 0·3	310·7	317·5	5th	297·1	292·3	12th	303·9	*304·2*	−0·1	0	0
745	Berbera, Somaliland	10 22	45 2	9·5	1006·4	1007·5	− 0·2	312·9	318·0	2nd, 3rd	301·4	296·9	29th	307·2	*306·7*	+0·6	0	− 1
746	Aden	12 45	45 3	28·7	1005·0	1008·2	+ 0·4	306·9	309·1	19th	300·9	298·6	22nd	303·9	*303·5*	−0·2	0	− 4
751	Bombay	18 54	72 49	11·3	1007·4	1008·7	− 0·6	302·4	303·7	6th	297·9	295·9	12th	300·2	299·5	0·0	465	+ 199
752	Kodaikanal	10 14	77 28	2343	769·7	..	− 0·6	291·7	293·8	1st, 25th	284·2	282·3	23rd	287·9	*287·1*	+0·7	107	− 77
753	Bangalore	12 59	77 38	921	939·0	1009·6	− 0·3	300·8	305·5	2nd	291·5	289·0	24th	296·1	*295·1*	0·0	174	− 4
754	Madras	13 4	80 14	6·7	1006·9	1007·7	− 0·9	307·6	311·1	12th	297·0	294·9	22nd	302·3	*302·2*	+0·3	82	− 45
755	Vizagapatam	17 42	83 19	11·6	1004·6	1005·9	− 0·1	303·8	306·3	14th	298·7	297·1	2nd	301·2	*300·6*	−0·7	186	+ 21
756	Port Blair	11 40	92 40	18·0	1007·1	1009·1	− 0·2	301·7	303·9	4th	297·1	295·8	22nd	299·4	*298·8*	−0·7	560	+ 101
757	Rangoon	16 46	95 48	5·5	1008·9	1009·6	+ 0·5	303·6	305·8	14th	297·8	296·3	5th	300·7	*299·8*	+0·5	313	− 75
758	Saigon (Cap St. Jacques)	10 20	107 5	180	987·8	1008·4	+ 0·9	301·9	304·0	2nd	296·0	294·0	2nd	299·0	*298·6*	−0·5	169	− 15
759	Nhatrang	12 15	109 12	3·6	1006·8	1007·2	+ 0·5	304·9	308·3	1st	296·4	295·4	29th	300·6	*300·0*	−0·3	159	− 10
760	Bolinao	16 23	119 53	7·1	..	1034·2	− 1·8	304·0	305·5	25th	295·6	294·7	1, 17, 27	299·8	*299·9*	0·0	155	− 397
761	Vigan	17 34	120 23	12·2	..	1005·6	− 1·3	304·6	306·1	10th	297·0	296·0	7th, 8th	300·8	300·3	+0·4	212	− 289
761a	Manila	14 35	120 59	14·2	..	1006·3	− 0·9	304·0	305·8	8th	296·9	295·3	6th	300·5	299·7	−0·1	381	+ 18
762	ϕOrmoc	11 0	124 36	5·6	..	1006·4	− 0·9	304·7	305·9	27th, 28th	297·0	293·6	2nd	300·9	*300·2*	+0·6	139	− 141
763	Guam, Ladrone Is.	13 24 N.	144 38 E.	18·6	..	1005·4	− 1·8	302·8	305·3	2nd	297·7	296·0	24th	300·3	*300·1*	0·0	330	− 70

Between Latitude 10° N. and 0°.

SEPTEMBER—ZONE 8.

		N.	W.															
771	Fanning Island	3 54	159 23	5·3	1010·1	1010·7	..	305·4	307·4	5th	298·6	297·1	19th	302·0	*301·5*	+1·0	145	+ 56
772	Colon	9 23	79 23	11·0	..	1010·1	− 0·5	302·9	305·2	20th	297·6	295·8	14th	300·2	*299·8*	+0·5	313	− 5
773	Bogota	4 36	74 5	2645	743·9	..	..	291·9	293·9	7th, 20th	282·3	279·4	11th	287·1	*286·9*	..	18	− 43
774	Merida, Venez.	8 36	71 9	1641	‡840·9	..	− 0·5	298·8	301·0	16, 18, 19	288·3	286·5	18th	293·5	*292·2*	+0·4	120	− 38
775	Ciudad Bolivar	8 9	63 33	38	1006·1	1010·4	..	305·6	307·5	30th	297·3	295·0	7th	301·5	*301·0*	..	27	− 65
776	ϕEl Peru, Guayanavieja	7 19	61 49	220	985·6	1010·5	+ 0·4	304·3	306·3	30th	293·5	292·7	5, 7, 22	298·9	*298·2*	0·0	64	− 50
777	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1013·0	+ 0·7	303·8	304·7	30th	297·1	294·7	3rd, 7th	300·4	*300·3*	−0·5	91	+ 13
778	Paramaribo	5 49	55 9	3·7	‡1013·3	‡1013·7	+ 0·8	306·4	307·7	27th	295·7	293·6	3rd	301·1	*301·2*	+1·7	40	− 33
779	Cayenne	4 56	52 21	6	..	..	..	306·8	308·0	22nd	295·7	295·0	sev. dates	301·3	*300·8*	+0·9	6	− 25
781	10°—5° N. 30°—25° W.	††7 36	††27 42	§(94·98)	..	1014·0	+ 1·0	..	..	Sea Temp. 299·6]	−0·2	..	..	299·2	−0·2	..	..	..
782	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
783	Freetown, Sierra Leone	8 29	13 9	68·3	1005·0	1012·8	+ 0·6	302·1	304·1	29th	295·5	294·1	19th, 20th	298·8	*297·9*	..	628	− 95
784	Assuantsi	5 18	1 15	101	..	..	..	299·9	302·4	28th, 29th	294·2	291·3	5th, 22nd	297·1	*296·7*	..	108	+ 24
785	ϕAccra	5 33	W 0 12	27·0	1009·9	1013·0	..	300·8	301·9	9, 12, 23	294·4	293·0	2nd, 3rd	297·6	*297·2*	0·0	26	− 4
786	ϕLagos	6 27	E 3 24	4·6	1011·8	1012·3	+ 0·1	301·6	303·2	28th	296·1	294·1	11th	298·8	*298·1*	−0·1	80	− 62
787	Zungeru	9 48	6 10	130	..	..	..	304·5	306·9	27th, 28th	294·1	292·4	15th, 17th	299·3	*298·7*	+0·4	300	+ 38
788	ϕYola	9 12	12 30	259	..	..	..	303·5	305·8	27th, 30th	..	..	..	..	‡*298·7*	0·0	201	− 3
789	Wau	7 42	28 3	440	..	..	..	305·9	308·0	sev. dates	293·6	292·5	sev. dates	299·8	*298·3*	+0·1	236	+ 74
793	Malakal (Kodok)	9 35	31 37	394	965·8	1009·9	− 0·3	304·5	306·8	21st	294·2	292·3	25th, 26th	299·4	†*298·4*	+0·1	283	+ 145
794	Mongalla	5 11	31 47	439	959·5	1008·2	− 0·8	306·3	310·0	7th	..	..	..	..	..	..	161	+ 37
795	ϕEntebbe	0 5	32 29	1171	883·9	1010·2	− 0·1	298·4	300·8	20th	289·3	287·4	6th, 12th	293·8	*294·1*	+0·5	98	+ 20
796	Minicoy	8 17	72 49	2·1	1010·1	1010·3	− 1·4	..	..	..	..	..	..	..	..	..	269	+ 107
797	Cochin	9 58	76 21	2·7	1010·8	1011·1	− 0·1	302·1	303·1	11th	296·6	295·3	16th	299·3	*298·7*	−0·3	409	+ 181
798	Colombo Observatory	6 54	79 53	7·3	..	1009·7	0·0	302·5	303·6	1st	297·4	295·7	8th	300·0	*299·4*	−0·3	346	+ 225
799	Nuwara Elija	6 59	80 46	1886	..	..	..	291·8	295·4	5th	285·7	283·1	26th	288·8	*288·1*	+0·6	368	+ 163
800	Trincomalee	8 34	81 14	30·2	..	1006·8	0·0	307·3	309·2	24th	298·1	296·6	2nd	302·7	*302·1*	+0·6	10	− 109
801	Kuta Raja	5 32	95 20	7·1	..	..	..	..	..	.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1009·3	1010·2	— 0·7	..	..	..	297·9	296·9	4th, 15th	..	..	..	11	— 11
924	ϕManaos	3 8	60 1	43·8	..	..	..	306·4	309·4	28th	296·4	294·4	18th	301·4	..	..	47	+ 3
926	Taperinha	2 30	54 20	20·0	1009·3	1011·7	+ 0·1	305·8	307·0	26th	295·1	293·5	14th	300·4	*299·4*	+0·5	32	+ 5
927	ϕTuryassu	1 43	45 26	9·1	1010·4	1011·4	— 0·4	305·4	307·3	8th	295·4	293·2	18th	300·4	*299·4*	—0·1	20	+ 14
928	ϕBarra do Corda	5 30	45 16	81·0	1000·9	1010·2	— 0·3	306·9	309·0	28th	293·5	291·8	11th	300·2	*299·2*	—0·4	11	— 2
929	Quixeramobim	5 16	39 15	207	990·2	1013·5	+ 0·6	305·5	307·2	3rd, 4th	296·1	295·0	6th	300·8	*300·7*	—0·1	0	— 14
930	ϕFernando Noronha	3 50	32 25	106	1002·5	1014·6	+ 0·4	300·2	300·6	11, 25, 28	296·4	294·9	10th	298·3	*298·0*	0·0	6	+ 1
934	Ascension Island	7 56	W14 25	16·8	1013·8	1015·7	— 0·2	301·2	303·0	25th	294·6	293·0	21st	297·9	*297·4*	+0·4	9	+ 1
939	Loanda	8 49	E 13 13	51	..	1014·3	0·0	295·7	299·2	25th	290·9	290·0	21st, 23rd	293·3	292·9	—1·4	0	— 26
940	Brazzaville	4 17	15 16	321	978·9	1015·2	+ 2·0	304·6	308·0	18th	292·4	290·0	1st	298·5	*297·7*	—0·1	3	— 47
943	Masaka	0 21	31 47	?1280	..	..	..	304·8	305·2	sev. dates	..	..	..	*292·6*	+0·2		30	+ 14
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	298·0	300·8	17, 19, 23	283·6	279·1	6th, 25th	290·8	..	..	29	+ 17
944*a*	Zanzibar	6 10	39 11	21·9	1015·6	1018·1	— 0·1	301·0	302·5	28th	296·0	295·1	7th, 15th	298·5	*297·5*	—0·1	16	+ 20
945	ϕLamu	2 16	40 50	3·0	..	..	..	301·0	301·9	23, 25, 26	297·0	296·3	2nd. 28th	299·0	*298·6*	—0·3	53	+ 28
947	Seychelles, Port Office	4 37	55 27	4·6	1012·4	1012·8	— 0·3	299·8	301·0	26th	297·8	295·7	25th	298·8	*298·1*	—0·3	174	— 109
957	ϕPadang	0 56	100 22	6·7	1009·8	1010·6	— 0·1	..	..	..	..	..	..	..	..	..	301	— 70
958	Batavia	6 11	106 50	8·0	1009·9	1010·8	+ 0·3	304·6	306·3	2nd	295·3	293·4	3rd	299·9	299·6	+0·1	3	— 110
958*a*	Pontianak	0 1	109 20	2·6	1010·3	1010·5	+ 0·8	..	..	..	..	..	..	..	..	..	94	— 7
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	0	— 14
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	0	— 202
962	Amboina	3 42	128 10	4·2	1010·5	1011·0	+ 0·3	..	..	..	..	..	..	..	..	..	30	— 0
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	130	— 35
965	Daru	9 4	143 13	7·6	..	1012·5	+ 0·4	301·2	..	..	295·1	..	..	298·1	*297·7*	—0·6	8	— 29
966	ϕPort Moresby	9 29	147 9	39·0	..	1012·8	+ 0·9	299·5	..	..	295·4	..	..	297·4	*297·0*	—1·4	3	— 27
967	Rabaul	4 9	152 12	20·7	..	1009·7	..	305·2	307·6	23rd	295·8	293·9	8th	300·5	*299·9*	—0·2	18	— 7
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1010·2	1010·5	+ 0·2	303·6	305·2	15th	297·4	295·4	28th	300·5	*300·3*	+0·3	81	— 51
970	Ocean Island	0 52	169 35	54·0	1001·4	1007·5	— 0·7	304·7	305·8	30th	297·1	295·8	sev. dates.	300·9	*300·2*	+0·1	50	— 51
		S.	E.															

SEPTEMBER—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1011·4	— 0·8	302·7	304·5	5th	294·8	291·5	16th	298·7	298·5	—0·2	111	— 19
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	300·3	304·7	19th	290·2	287·4	10th, 22nd	295·3	*295·1*	—1·5	100	— 29
1021	ϕArequipa	16 22	71 33	2452	761·5	..	+ 0·3	293·9	296·1	17th	283·8	281·1	15th	288·9	*288·8*	+1·2	0	— 14
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	283·2	282·0	1st, 3rd	..	*287·0*	..	11	— 14
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·3	..	..	293·7	300·5	27th	280·5	273·5	3rd	287·1	*287·6*	..	4	— 14
1025	ϕCorumba	18 59	57 39	116	997·2	1010·3	— 0·3	303·0	309·0	27th	293·3	281·8	3rd	298·2	*298·2*	—0·2	83	— 55
1026	ϕCuyaba	15 36	56 6	165	991·6	1010·2	0·0	307·8	311·3	8th	294·1	284·5	3rd	301·0	*299·8*	+0·2	29	— 55
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	916·9	1016·0	+ 0·6	300·9	305·0	13th	288·3	285·0	11th	294·6	*294·6*	—0·5	76	— 52
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1009·6	1015·1	— 0·8	300·0	302·0	15th	294·6	293·4	19th, 20th	297·3	*297·0*	+0·4	102	— 16
1030	ϕAracaju	10 55	37 3	6·1	1015·4	1016·2	— 0·3	300·5	302·1	3rd	294·9	292·5	2nd	297·7	*297·8*	—0·5	16	— 47
1035	St. Helena	15 57	W 5 40	‡604	947·0	1016·6	+ 0·3	290·7	293·1	20th	284·9	284·1	12th, 14th	287·8	*287·7*	+0·4	47	— 14
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	296·7	13th	..	281·6	3rd	..	*291·0*	..	0	— 70
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	7	— 27
1041*a*	Elisabethville	11 39	27 28	1236	878·0	1010·6	+ 0·3	304·8	308·6	22nd	284·4	280·6	14th	294·6	..	+0·1	0	— 20
1042	Gwelo	19 28	29 48	1417	865·1	1017·1	+ 1·6	302·7	308·0	29th, 30th	283·0	276·9	15th	292·9	..	+1·0	0	— 28
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡855·4	‡1012·6	— 0·6	301·3	306·3	21, 22, 23	282·9	277·9	12th	292·1	*291·2*	0·0	0	— 109
1044	Zomba	15 23	35 18	955	909·6	1014·1	— 0·6	300·9	304·7	25th	288·2	284·1	11th, 13th	294·5	*295·1*	+0·7	0	— 110
1045	ϕAntananarivo	18 55	47 33	1375	867·5	1016·9	— 0·1	297·8	304·0	27th	282·8	278·1	4th	290·3	289·9	+0·8	3	— 71
1046	Tamatave	18 10	49 24	5	..	..	..	298·0	300·5	..	290·8	289·0	..	294·4	*293·9*	..	94	— 14
1047	Vohémar	13 21	50 1	3	..	..	..	302·1	305·0	..	292·3	291·5	..	297·2	*296·6*	..	114	— 202
1048	Antalaha	14 58	50 19	3	1017·1	1017·4	..	..	..	..	..	..	..	..	..	..	67	— 0
1055	Cocos Keeling Is.	12 5	96 53	4·6	1016·1	1016·6	+ 1·7	300·1	301·4	2nd	296·3	294·7	22nd	298·2	*297·9*	—1·0	93	— 35
1057	ϕChristmas Island	10 25	105 43	5·5	1010·8	1011·4	+ 0·9	303·6	304·1	sev. dates	294·9	293·6	8th, 22nd	299·3	*298·4*	—0·4	7	— 29
1061	Kupang	10 10	123 34	45·1	1006·8	1012·2	+ 0·6	305·5	307·7	27th	292·9	289·5	9th	299·2	298·3	—1·1	0	— 0
1061*a*	ϕDerby	17 18	123 40	16·2	1012·1	1014·1	+ 1·0	306·1	310·3	30th	290·3	286·9	7th	298·2	..	—1·2	0	— 0
1062	ϕHall's Creek	18 13	127 46	373	972·1	1013·5	+ 0·2	305·8	309·7	24th	284·7	277·5	6th	295·2	*294·7*	—2·2	0	— 0
1063	Darwin	12 28	130 51	29·6	1009·2	1012·6	+ 1·1	305·6	308·0	1st	294·7	291·9	6th	300·1	*299·0*	—1·0	0	— 0
1064	Daly Waters	16 16	133 23	211	987·6	1011·1	— 0·7	307·3	310·8	24th, 25th	287·5	280·8	6, 7, 10	297·4	*296·9*	—2·2	0	— 0
1065	ϕMein	13 13	142 47	122	997·5	1011·3	— 0·3	304·6	308·4	28th	296·2	..	..	296·2	..	—2·4	0	— 0
1066	ϕGeorgetown, Queensland	18 22	143 32	302	980·3	1014·1	0·0	305·6	308·6	26th	285·3	278·0	7th	295·4	..	—2·1	1	— 0
1066*a*	Willis Island	16 18	149 59	8·5	1013·1	1014·2	..	299·4	300·2	14, 28, 30	294·9	292·9	7th	297·1	*296·7*	..		— 0
1067	Samarai	10 37	150 40	15·2	..	1012·9	+ 0·8	300·8	..	..	295·3	..	..	298·1	*297·9*	—0·3	19	— 0
1072	Suva, Fiji	18 8	178 26	6·1	1014·3	1015·0	— 0·6	298·4	301·4	10th	292·2	289·9	14th, 16th	295·3	*295·1*	—1·3	140	— 0
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks." page 112.
ϕ Change of normals *see* pages 112 and 113.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	297·2	299·1	20th	291·0	288·0	5th, 23rd	294·1	*293·9*	—0·8	174	+ 63
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1014·2	1017·5	— 0·2	288·2	290·0	11th, 12th	283·0	280·3	1st	285·6	*285·6*	—0·1	0	— 4
1122	Iquique	20 12	70 11	9	1015·1	1016·2	— 0·2	291·2	293·5	5th	285·8	284·3	6th, 17th	288·5	*288·9*	—0·3	0	0
1123	Catamarca	28 27	65 47	510	952·8	1010·6	— 1·8	300·7	314·0	26th	284·2	272·0	2nd	292·5	292·6	+0·8	1	— 6
1124	Salta	24 46	65 28	1178	882·2	1011·4	0·0	298·7	308·6	27th	281·8	267·4	1st	290·3	290·5	+0·3	9	0
1125	Goya	29 9	59 15	26	1009·7	1012·8	— 1·1	298·4	307·0	27th	285·8	276·2	3rd	292·1	291·4	+1·0	85	+ 25
1126	Asuncion	25 17	57 41	93	1002·3	1013·4	— 0·1	303·0	311·0	7th	287·8	277·0	3rd	295·4	294·7	+0·7	33	— 46
1127	Curityba	25 25	49 17	908	913·7	1016·2	— 1·4	293·4	302·5	11th	282·1	274·7	5th	287·8	*287·1*	—0·4	147	+ 25
1128	Rio de Janeiro	22 54	W43 10	33·0	1012·0	1015·9	— 1·1	298·6	304·4	11th	290·6	285·4	4th	294·6	294·2	+0·3	‡124	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	299·5	305·1	27th	285·7	275·0	19th	292·6	*292·5*	+0·6	0	— 2
1140																		
1141	Kimberley	28 42	24 47	1202	884·3	1016·0	— 0·1	300·6	306·7	30th	281·6	275·4	6th	291·1	290·8	+1·5	0	— 16
1141*a*	Johannesburg	26 11	28 4	1806	824·6	1016·9	+ 0·2	296·7	304·7	30th	283·1	276·6	6th	289·9	*289·8*	+1·7	13	— 11
1142	Bulawayo	20 9	28 35	1340	870·6	1014·8	0·0	301·1	306·7	30th	285·1	278·2	13th	293·1	*292·9*	+0·3	0	— 3
1143	Durban	29 52	31 3	15·2	1018·4	1020·2	— 0·6	296·3	299·8	28th	289·3	284·3	18th	292·8	*292·3*	+0·7	30	— 51
1144	Lourenço Marques	25 58	32 36	59	..	1018·3	— 0·9	301·0	314·2	22nd	289·3	285·5	7th	295·2	294·4	+0·8	4	— 21
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	284·7	283·0	..	..	..	..	11	..
1146	Fort Dauphin	25 2	46 58	25	..	1020·1	..	296·2	299·0	..	284·3	282·0	..	290·2	*289·4*	..	26	..
1147	Mauritius	20 6	57 33	55·2	1013·2	1019·7	— 0·5	297·8	299·6	27th	289·5	285·3	21st, 24th	293·7	293·3	—0·6	30	— 3
1159	Onslow	21 43	114 57	4·3	1014·4	1015·3	+ 0·8	303·1	308·0	2nd, 6th	285·1	282·3	15th	294·1	..	—0·4	0	— 2
1160	Cue	27 27	117 52	454	965·1	1017·1	+ 0·9	295·6	302·4	7th	281·6	275·4	13th	288·6	..	—1·7	1	— 7
1161	ϕNullagine	21 53	120 5	386	971·1	1014·2	+ 0·1	303·2	306·9	7th, 8th	282·5	276·3	15th	292·9	..	—1·8	0	— 1
1162	Laverton	28 40	122 23	466	962·4	1015·5	— 1·1	297·2	304·7	7th	281·9	276·4	13th, 27th	289·6	*289·6*	—0·2	0	— 8
1163	Alice Springs	23 38	133 37	587	947·9	1013·4	— 2·8	300·7	306·3	15th	281·3	273·6	2nd	291·0	*291·1*	—0·6	0	— 10
1164	ϕWilliam Creek	28 55	136 21	76·2	1004·3	1013·3	— 3·5	299·1	308·0	17th, 25th	281·5	276·3	2nd, 8th	290·3	*290·1*	+0·2	0	— 11
1165	Boulia	22 55	139 38	146	996·2	1012·9	— 1·3	302·5	309·7	26th	282·5	276·3	9th	292·5	*292·6*	—1·9	0	— 9
1166	Thargomindah	27 58	143 43	123	998·1	1012·4	— 3·4	299·0	308·2	11th	283·0	277·0	9th	291·0	*290·8*	—0·7	0	— 13
1167	Mitchell	26 32	147 52	336	974·9	1012·7	..	299·1	306·3	20th, 26th	279·8	274·4	9th	289·4	..	0·0	31	— 3
1167	ϕRockhampton	23 24	150 30	11·3	1012·7	1014·1	— 2·8	302·6	308·3	25th	286·3	280·4	9th	294·4	..	+0·2	11	— 23
1168	ϕBrisbane	27 28	153 2	41·8	1007·9	1012·7	— 4·7	298·3	306·6	12th	285·5	281·8	17th	291·9	*291·6*	+0·5	31	— 21
1170	ϕNorfolk Island	29 4	167 59	15·2	1014·8	1016·7	— 3·0	292·8	295·8	29th	287·4	284·7	19th, 20th	290·1	*289·7*	+0·2	216	+116
		S.	E.															

Between Latitude 30° S. and 40° S.

SEPTEMBER—ZONE 12.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1201	Juan Fernandez	33 37	78 50	345	..	..	..	285·3	288·1	17th	280·0	277·4	26th	282·7	*282·5*	..	61	..
1221	Punta Tumbes	36 37	73 6	120	1003·5	1018·1	— 1·1	286·7	288·6	16th	279·7	277·5	24th, 30th	283·2	*283·6*	—0·7	21	— 29
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1013·2	1018·2	— 0·0	289·7	294·9	4th	282·0	278·4	1st	285·9	*285·4*	—0·8	1	— 30
1223	Santiago	33 27	70 42	520	956·2	1017·3	— 0·5	292·0	298·2	19th	278·7	272·5	1st	285·3	*284·3*	+0·1	13	— 19
1224	Cordoba	31 25	64 12	423	965·0	1014·2	— 1·5	296·8	310·4	26th	280·7	269·1	2nd	288·7	288·2	+0·4	0	— 17
1225	Bahia Blanca	38 45	62 15	25	1012·6	1015·8	— 1·5	289·1	295·5	20th	280·2	276·0	2nd	284·7	284·2	—1·0	163	+123
1226	Buenos Ayres (Chacarita)	34 36	58 22	25	1012·7	1015·6	— 2·5	290·3	297·4	5th	282·7	275·8	15th	286·5	286·6	+0·8	53	— 23
1227	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1015·5	— 1·8	..	296·0	26th	..	278·0	1st	..	*286·5*	+0·7	88	+ 1
1228	ϕPorto Alegre	30 2	W51 13	23·5	1012·5	1015·3	— 1·7	295·6	303·4	26th	285·5	278·6	2nd	290·5	290·2	+0·7	78	— 52
1239	ϕCape Town	33 56	E 18 29	12·2	..	1019·4	+ 0·3	291·6	297·1	10th	283·1	279·4	4th	287·3	*286·0*	+0·1	47	— 10
1240	Danger Point	34 37	19 18	27·7	1015·0	1018·3	..	290·7	297·4	21st	283·0	278·6	21st	286·8	..	0·0	64	+ 2
1241	Riversdale	34 6	21 16	‡?100	1007·0	1019·0	..	295·3	307·4	11th	281·0	274·7	6th	288·2	..	..	12	— 28
1242	East London	33 2	27 55	44·8	..	1017·9	— 1·7	295·1	310·8	3rd	285·1	278·6	18th	290·1	..	+0·5	43	— 9
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1009·3	1016·7	— 1·3	290·4	293·1	7th	282·7	280·0	19th	286·6	*286·5*	—1·0	199	+112
1260	Katanning	33 42	117 35	310	976·6	1013·6	— 3·3	288·7	295·7	7th	278·2	272·4	12th	283·4	..	—1·7	89	+ 39
1261																		
1262	Coolgardie	30 57	121 10	423	965·6	1014·4	— 2·4	293·9	302·9	7th	280·1	275·2	13, 20, 27	287·0	*287·0*	—0·8	3	— 12
1263	Eucla	31 45	128 58	4·6	1012·2	1012·8	— 3·9	293·4	306·3	8th	281·8	277·2	13th	287·6	*287·2*	—0·5	11	— 8
1264	Streaky Bay	32 48	134 13	13·1	1011·6	1013·0	— 4·6	291·9	298·6	17th	281·1	276·9	6th	286·5	*286·1*	—0·8	42	+ 7
1265	ϕAdelaide	34 56	138 35	42·7	1006·2	1011·3	— 6·0	291·4	299·2	17th	281·3	276·5	8th	286·4	*286·2*	—0·5	148	+ 96
1266	ϕMelbourne	37 49	144 58	35·1	1004·3	1008·4	— 7·4	289·1	296·1	26th	280·3	275·6	2nd, 9th	284·7	*284·5*	—0·6	58	— 4
1267	Bourke	30 13	145 58	110	1002·1	1015·2	— 4·5	298·7	307·4	26th	281·9	276·3	9th	290·3	..	+0·2	0	— 20
1267	ϕSydney	33 51	151 13	42·1	1003·2	1008·2	— 7·8	294·3	303·2	20th	283·5	279·6	9th	288·9	*288·4*	+0·8	56	— 17
1268	ϕLord Howe Island	31 20	159 0	4·6	1011·8	1012·5	— 5·6	293·2	296·1	13th	285·8	281·4	18th	289·5	..	—0·7	103	— 29
1271	Auckland	36 50	174 50	38·1	..	1014·5	— 2·3	288·6	290·8	24th	282·5	279·9	26th	285·6	..	0·0	102	+ 10
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

Between Latitude 40° S. and 50° S.

SEPTEMBER—ZONE 13.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1010·0	..	..	..	..	..	..	..	..	..	..	37	— 32
1321	Isla Guafo	43 34	74 45	140	1000·2	1017·3	+ 0·1	283·1	289·2	11th	278·7	276·1	20th	280·9	*280·5*	—0·2	69	— 2
1323	Punta Galera	40 1	73 44	40	1013·6	1018·5	+ 0·3	284·2	287·0	11th	279·6	277·0	21st	281·9	*282·3*	—0·4	185	+ 12
1324	Sarmiento	45 30	69 0	274	980·6	1013·8	+ 0·5	286·3	295·8	18th	275·0	267·9	1st	280·7	280·3	—0·7	23	+ 12
1325	Puerto Madryn	42 49	W64 58	14	1012·1	1013·5	— 0·9	287·7	297·0	19th	278·1	271·5	22nd	282·9	282·9	—0·6	36	+ 22
1365	Launceston	41 27	E147 10	10·1	1002·5	1003·7	— 7·9	287·8	290·7	3rd	278·4	273·5	1st	283·1	*282·3*	—0·1	135	+ 60
1366	ϕHobart	42 53	147 20	53·9	995·9	1002·6	— 8·3	287·6	292·6	17th	279·1	274·7	1st	283·4	*282·6*	—0·2	78	+ 25
1370	Invercargill	46 25	168 21	3·7	..	..	..	287·5	291·9	6th, 29th	276·9	272·4	7th	282·2	..	+0·3	45	— 36
1371	Dunedin	45 52	170 31	91·4	..	1010·5	— 1·0	287·2	294·7	29th	279·7	276·3	5th, 6th	283·4	..	+1·6	53	— 17
1372	Christchurch	43 31	172 39	7·6	..	1010·9	— 2·0	287·6	293·6	30th	278·1	273·8	5th	282·8	..	+0·4	36	— 9
	Wellington	41 16	174 46	3·0	..	1013·3	— 0·6	287·9	291·1	30th	280·8	274·5	6th	284·3	..	+0·4	56	— 45
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

SEPTEMBER—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															
1421	Islota de los Evangelistas	52 24	75 6	55	999·9	1006·7	+ 2·7	278·6	280·6	18th	275·3	271·0	5th	276·9	*277·0*	—0·8	374	+138
1422	Puerto de Punta Arenas	53 10	70 54	28	1000·8	1004·3	— 0·6	280·0	283·7	22nd	274·6	271·5	11th, 14th	277·3	*277·5*	—0·1	0	— 20
1423	Punta Dungeness	52 24	68 26	5	1003·1	1003·7	— 0·1	281·0	285·8	18th	274·0	271·7	5th	277·5	*276·5*	—1·1	8	— 5
1424	Santa Cruz	50 11	68 21	12	1006·0	1007·0	— 0·4	284·3	291·1	26th	274·0	269·0	1st	279·1	279·0	—0·4	2	— 3
1424a	‡Año Nuevo	54 39	64 8	50	..	..	..	278·0	282·0	19th	274·0	271·0	7th, 14th	276·0	*275·4*	—1·0	60	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1005·0	..	279·2	283·6	17th	272·9	270·8	6th, 8th	276·1	..	..	51	+ 17
1426	Cape Pembroke	51 41	57 42	21·3	1001·6	1004·2	— 1·3	278·8	283·6	17th	273·2	268·6	15th	276·0	275·9	—1·2	..	..
1429	S. Georgia(Cumberland Bay)	54 14	36 33	4	996·0	996·5	— 3·7	276·6	288·2	20th	268·8	262·0	10th	272·7	*273·0*	—0·3	97	+ 10
		S.	W.															

SEPTEMBER—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44	44 39	7	988·8	989·7	— 3·9	266·7	274·8	18th	254·3	242·2	3rd, 7th	260·5	261·2	—4·9	21	— 4
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		S.	W.															

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS—SEPTEMBER, 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	Calm	1·5	SE 3	WNW 1	WSW 2	E 1	S 1	E 2	E 2	SE 2	NE 1	Calm 0	E 3
2	SSE	7·1	SSE 3	SW 1	SW 1	S 1	Calm 0	E 3	EbyS 4	SE 2	E 2	NE 1	SE 5
3	SSE	8·2	ESE 3	SSW 2	SW 1	Calm 0	Calm 0	EbyS 3	EbyS 5	Calm 0	E 1	E 1	ESE 5
4	SE	7·9	ESE 3	NE 1	SW 1	NW 1	Calm 0	E 3	E 5	SE 2	ENE 1	NE 1	E 5
5	SE	7·4	SE 1	NNW 1	SW 2	N 1	Calm 0	E 2	E 5	SE 1	N 1	Calm 0	SSE 3
6	SE	5·9	SE 3	NW 1	SW 3	N 1	S 1	E 4	EbyN 4	Calm 0	NE 1	NE 1	SE 4
7	SE	6·3	SSE 3	ENE 1	SSW 1	SE 1	Calm 0	EbyN 3	E 4	Calm 0	N 1	N 1	ESE 4
8	SE	12·3	ESE 2	ENE 1	SW 3	N 1	Calm 0	ENE 4	NE 3	SE 2	NE 1	NE 1	E 5
9	SE	9·2	E 2	NE 1	WSW 2	NW 2	Calm 0	NE 2	Calm 0	SE 2	NE 3	NE 3	NE 5
10	SE	9·4	ESE 3	SSW 1	SW 2	NW 1	S 1	NE 1	EbyN 2	SE 2	E 3	E 1	N 5
11	SE	8·6	SE 3	NE 1	SW 3	N 1	NW 2	E 2	E 2	SE 2	NE 3	NE 2	SSW 4
12	SE	8·1	ESE 3	SW 1	SW 2	NW 2	Calm 0	EbyN 1	E 2	SE 2	NE 3	NE 2	SE 1
13	SE	6·6	SE 2	Calm 0	SW 2	NW 2	Calm 0	E 1	E 3	SE 5	E 2	E 2	SE 2
14	SE	8·9	SE 3	Calm 0	SW 2	NW 1	Calm 0	E 1	E 2	SE 4	NE 3	NE 1	SE 3
15	SE	11·8	SSE 3	E 1	SW 1	SE 1	Calm 0	E 2	E 2	SE 2	NE 1	NE 4	SE 3
16	SE	10·6	SSE 5	SE 1	WSW 1	NW 1	Calm 0	E 2	E 2	Calm 0	SE 2	E 1	E 3
17	SE	8·8	SE 5	E 2	WSW 1	NW 1	S 1	E 3	E 3	SE 2	NE 2	NE 2	NE 3
18	SE	4·8	ESE 4	SW 2	SW 2	NW 2	Calm 0	E 3	E 3	SE 1	NE 1	E 1	N 1
19	ESE	3·1	SE 2	Calm 0	SSW 1	N 1	Calm 0	E 2	E 2	SE 2	S 1	SSE 1	S 1
20	Calm	1·7	SSW 4	Calm 0	Calm 0	Calm 0	Calm 0	E 1	E 2	SE 2	SE 2	E 3	SE 2
21	Calm	0·3	SE 3	E 1	SSW 1	NW 1	NW 1	E 2	E 2	SE 1	E 2	E 1	E 4
22	Calm	1·3	ESE 4	NE 2	SW 1	N 1	NW 1	EbyS 2	EbyS 2	Calm 0	NE 2	NE 1	E 4
23	SE	3·8	SSE 2	E 2	SSW 2	N 2	Calm 0	ESE 3	ESE 3	SE 2	E 1	E 1	NE 4
24	SE	4·3	SE 4	Calm 0	SW 2	NW 1	NW 2	EbyS 4	EbyS 3	SE 2	NE 1	Calm 0	N 2
25	SE	6·1	ESE 1	Calm 0	SW 2	Calm 0	Calm 0	E 3	E 2	SE 2	E 1	Calm 0	E 1
26	SE	7·2	E 4	WNW 1	SW 1	E 2	Calm 0	E 2	E 3	SE 2	E 1	Calm 0	NE 4
27	SE	10·5	ESE 4	NE 1	WSW 1	NE 1	Calm 0	E 1	E 2	SE 2	NE 1	NE 1	E 4
28	SSE	11·3	SE 3	NE 1	SSW 1	Calm 0	Calm 0	E 1	E 2	Calm 0	NE 2	NE 2	ESE 3
29	SE	11·4	SE 4	ENE 1	SW 3	Calm 0	SW 1	E 2	E 3	Calm 0	NE 2	Calm 0	E 3
30	SE	10·7	SSE 3	NNE 1	SW 2	NW 1	Calm 0	E 1	E 1	SE ..	SW 1	W 1	ESE 3
Mean	..	7·2	3·1	1·0	1·6	1·1	0·4	2·2	2·7	1·6	1·6	1·1	3·7
§Resultant	140° (84)	..	135° (87)	220° (33)		325° (24)		90° (96)		135° (76)	65° (66)		100° (66)
§ Normal	143° (91)	8·8	‖ 124° (80)	260° (33)		255° (29)		‖‖ 89° (88)		133° (81)	‖ 102° (48)		102° (59)

‖Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—SEPTEMBER 1923.

‡‡*Arctic Sea.*—South of a line from the north point of Novaya Zemlya to Dickson Island the sea was free of ice.

‡‡*Kara Sea* was free of ice. A heavy north-easterly gale blowing from the 6th to the 8th even brought no ice. On the 27th there was still no ice east of Matotchkin Strait where high mean temperatures prevailed.

‡‡*Barents Sea* was free of ice.

‡‡*Spitsbergen.*—The sea was free of ice east of King Charles Land and at Swedish Foreland, but westwards scattered ice was observed south of Thousand Islands to South Cape, and strips of scattered ice between South Cape and Horn Sound. North of this the west coast was free of ice.

‡‡*Iceland* was free of ice as is usual in this month.

‡‡*Greenland Sea and Denmark Strait.*—The *Conrad Holmboe* continued to drift south with the close ice passing Liverpool Coast 5 miles offshore. At Angmagsalik there was scattered ice at the mouth of the fjord, but further out the ice was packed and there were many icebergs. From the 22nd the "Storis" formed a belt 20 miles wide.

‡‡*N. Atlantic and Labrador.*—No icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 11. A few icebergs, however, were observed to the north of the 48th parallel. Icebergs were lying in the Belle Isle Strait and a few were met with to 110 miles east of Belle Isle.

‡‡*Davis Strait and Baffin Bay.*—The sea, along the whole of the west coast of Greenland, in Cumberland Sound and along the Baffin Land Coast, was free of ice, but icebergs were numerous round Cape Farewell and in Disko Bay. Probably there was only a very little "middle pack" in Baffin Bay. Hudson Strait was free of ice, some icebergs, however, were met with in the entrance at Port Burwell. Until about the 20th Lyon Inlet and Vansittart Island were free of ice as also were Repulse Bay and Frozen Strait from the 1st to 10th and on the 19th. Along Southampton Island and in Hurd Channel there was close packed ice. After the 20th the ice became passable for sleighs in all these bays and straits.

‡‡*Polar Sea.*—The *Arctic* worked through close and heavy ice from Beechy Point towards the west, but a little to the east of Point Barrow the ice became more open. On the 4th the water began to freeze over at Point Barrow. Towards the south the sea was open.

‡‡ *Isforholdene i de arktiske Have, 1923 and 1924*, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, OCTOBER 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF OCTOBER 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **OCTOBER—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
1295	Barrow	71 23	156 17	7·0	..	1009·5	..	268·8	273·0	28th	264·4	256·9	11th	266·6	..	+2·4	27	+ 7
1323 1424 1425	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1325	Upernivik	72 47	56 7	19·2	1001·1	1003·5	— 5·5	272·4	279·5	11th	268·3	263·8	22, 24, 26	270·3	*270·3*	+1·3	20	— 8
1333 1335	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1345	Jan Mayen	70 59	W 8 18	23·1	997·2	1000·1	..	..	279·1	20th	271·5	267·7	4th	..	*273·9*	..	16	..
1346	§Spitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1006·2	1007·7	— 1·2	..	278·2	10th	268·5	259·8	27th	..	270·1	+2·9	11	— 19
1362	Björnöen	74 28	19 15	40·5	997·5	1002·6	..	..	276·6	12th	272·4	267·6	28th	..	*273·7*	..	10	..
1363	Gjesvaer	71 6	25 22	6·5	998·2	999·0	— 8·8	..	280·3	16th	274·5	270·4	31st	..	*276·0*	+0·9	91	+ 14
1364	Mehavn	71 1	27 47	4·6	998·9	999·0	— 8·0	..	280·1	11th	274·1	271·0	7th	..	*275·4*	+0·8	83	— 5
1365	Vardö	70 22	31 8	6·8	999·2	1000·0	— 7·2	..	282·6	2nd	274·9	271·8	7th	..	*276·5*	+1·9	63	— 1
1367	Malye Karmakouly	72 23	52 43	14·8	1006·3	1008·1	— 0·1	274·8	279·8	5th	272·3	264·8	22nd	273·6	*273·5*	+3·9	30	0
1368	Waigatz	70 24	58 47	11·2	1007·5	1008·9	+ 1·7	275·8	282·0	1st	272·4	264·8	23rd	274·1	*274·0*	..	29	..
1373	Dickson	73 30	80 23	13	1015·0	1016·7	..	270·0	276·9	4th	264·9	254·1	20th	267·4	..	..	4	..
		N.	E.															

Between Latitude 70° N. and 60° N. **OCTOBER—ZONE 2.**

1293	Nome	64 30	165 24	6·7	..	997·6	— 7·8	276·2	285·2	13th	271·2	260·8	24th	273·7	*273·6*	+2·3	18	— 19
1294	Candle	65 55	161 57	2·4	..	..	..	274·2	282·4	13th	267·4	257·4	18th	270·8	..	+2·5	..	..
1295	Tanana	65 10	152 6	67·1	..	1002·0	— 4·3	277·4	286·3	5th	270·3	261·3	17th	273·9	..	+6·0	2	— 25
1296	Rampart	65 30	150 15	122	..	..	..	274·4	286·3	6th	268·2	260·2	17th	271·3	..	+4·0	2	— 23
1297	Valdez	61 7	146 16	8·2	..	..	..	279·7	284·1	13th	275·1	272·4	16th, 18th	277·4	..	+1·3	346	+169
1298	ϕEagle	64 46	141 12	254	..	1005·4	— 3·6	281·8	291·9	4th, 5th	270·7	258·0	17th	276·2	..	+7·2	3	— 17
1299	ϕDawson	64 4	139 29	324	968·3	1008·1	— 1·1	278·6	291·9	4th, 5th	268·6	259·1	30th	273·6	..	+4·2	9	— 21
1311	Carcross	60 11	134 34	662	..	..	..	279·2	286·3	7th	270·4	260·2	29th	274·8	..	+0·9	13	— 13
1312	Fort Good Hope	66 25	128 53	65·2	1003·0	1011·3	..	274·9	293·6	7th	264·0	249·1	28th, 30th	269·4	..	..	25	— 1
1313	Fort Simpson	61 52	121 35	129	995·3	1011·3	— 0·3	283·3	303·6	3rd	269·5	255·8	28th	276·4	..	+7·2	10	— 20
1315	Hay River	60 51	115 20	161	992·4	1012·2	+ 0·4	283·2	298·6	1st	272·1	260·2	29th	277·6	..	+4·9	1	— 27
1316	Jacobshavn	69 13	51 2	12·6	1001·2	1002·8	— 4·8	270·7	279·0	12th	266·4	259·5	25th	268·5	*269·0*	−0·3	28	+ 4
1317	Godthaab	64 11	51 43	20·4	998·4	1000·9	— 4·3	275·1	280·0	11th	271·7	266·6	25th	273·4	*273·3*	+1·1	171	+108
1318	Ivigtut	61 12	48 10	13·0	1000·8	1002·4	— 3·0	278·0	281·1	14th	272·7	269·3	25th	275·3	*275·4*	+1·4	68	— 81
1319	Angmagsalik	65 37	37 33	31·7	1000·0	1004·0	— 2·4	273·8	277·6	16th	267·0	263·2	10th	270·4	*270·1*	−1·7	47	−105
1321	Stykkisholm	65 5	22 46	25	992·3	995·4	— 9·7	277·9	281·5	3rd	273·6	270·5	10th	275·7	*275·7*	−0·5	25	— 52
1322	Vestmanno	63 24	20 17	132	975·5	991·5	−13·6	280·7	283·3	20th	275·0	270·6	10th	277·9	*276·9*	−0·8	57	— 90
1324	Grimsey	66 33	18 1	22·0	993·2	995·9	−11·5	276·3	280·1	6th	273·2	268·5	10th	274·7	*274·8*	−0·9	91	+ 56
1326	Teigarhorn (Berufjord)	64 41	14 22	18·0	989·9	992·1	−14·2	278·8	280·8	21st	274·5	270·0	15th	276·7	*276·7*	+0·2	192	+ 66
1327	ϕThorshavn	62 3	6 45	26·3	986·8	990·0	−17·6	280·9	283·2	18th	276·5	271·0	17th	278·7	*279·0*	−0·8	172	+ 17
1328	Lerwick	60 9	W 1 11	18·0	..	994·2	−14·1	283·3	285·8	1st, 2nd	279·2	275·2	4th, 5th	281·3	*281·1*	+0·4	120	+ 20
1337	Bergen (Met. Obs.)	60 24	E 5 19	44·4	990·1	995·5	−14·3	283·0	287·5	28th	278·8	274·4	17th	280·9	*280·8*	+0·3	332	+127
1338	Aalesund	62 28	6 10	6·3	993·7	994·5	−14·1	..	287·5	19th	278·1	275·0	5th	..	*280·7*	+0·2	143	— 17
1340	Trondhjem	63 26	10 25	39·5	990·8	995·6	−13·3	281·1	286·6	8th	274·8	271·4	28th	277·9	*278·3*	+0·6	80	+ 1
1342	Bodö	67 17	14 24	22·3	993·3	996·0	−12·8	..	282·2	2nd	275·1	272·9	8th	..	*277·8*	+0·4	102	0
1342a	Haparanda	65 50	24 9	9·2	998·2	999·4	−12·0	276·9	281·3	11th	272·4	264·0	29th	274·7	*274·9*	+0·5	100	+ 44
1343	ϕHelsingfors	60 10	24 57	11·7	999·7	1001·1	−13·3	282·3	286·7	2nd	277·3	270·3	29th	279·8	*279·8*	+1·4	120	+ 54
1343	Kuopio	62 54	27 40	90·3	989·1	1000·2	−12·4	279·4	284·6	1st	275·3	266·7	29th	277·3	*277·4*	+1·2	105	+ 54
1344	Kola	68 53	33 1	6·7	999·6	1000·4	— 8·7	277·1	283·5	3rd	273·2	267·4	30th	275·2	*275·3*	+2·8	60	+ 33
1345	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1345	Arkhangelsk	64 34	40 31	6·3	1002·2	1003·0	— 9·3	279·6	285·5	3rd	275·9	267·6	31st	277·8	*277·7*	+3·5	101	+ 61
1346	§Mezen	65 50	44 16	14·9	1001·9	1003·7	— 7·2	278·7	286·7	3rd	274·4	266·9	30th	276·6	*276·5*	+4·3	50	+ 16
1348	Oust-Tsylma	65 25	52 18	? 68	997·5	1005·9	— 6·2	278·9	288·6	3rd	275·2	269·0	30th	277·0	*276·8*	+5·6	68	+ 32
1349	§Tcherdyn	60 24	56 31	?177	987·0	1008·6	— 7·2	281·9	292·6	1st	275·7	271·6	22nd	278·8	*278·5*	+5·9	93	+ 39
1355	Berezov	63 56	65 4	39·5	1008·8	1013·8	+ 1·7	278·5	291·5	2nd	272·3	261·3	21st	275·4	*275·2*	+5·7	36	+ 12
1355	Obdorsk	66 31	66 35	23·7	1009·6	1012·6	+ 1·7	274·7	287·6	1st	269·4	257·6	23rd	272·0	*272·3*	+3·9	38	+ 19
1354	§Sourgout	61 15	73 24	? 40	1010·0	1015·0	+ 1·8	..	289·1	2nd	271·9	264·2	..	..	*275·7*	+5·2	20	— 15
1362	Doudinka	69 23	86 4	20·0	1017·0	1019·6	+11·5	..	278·5	9th	262·6	251·7	21st	..	*266·0*	+1·8	1	— 18
1363	Touroukhansk	65 47	87 57	45·0	1016·0	1021·9	+ 8·3	..	280·0	7th	264·1	249·5	16th	..	*267·8*	+1·7	24	— 8
1363	Viliouisk	63 45	121 35	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1363	Iakoutsk	62 1	129 43	108	1003·1	1017·0	+ 0·9	..	279·1	1st	258·6	244·3	19th	..	*263·4*	−1·8	17	— 1
1372	Verkholansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

OCTOBER—ZONE 3.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	279·4	282·4	1st, 26th	274·6	268·6	6th	277·0	..	..	139	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	993·5	−11·2	277·3	280·2	11th, 12th	274·1	271·3	6th	275·7	..	−1·1	49	+ 49
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	991·9	−13·4	280·2	283·0	2nd, 11th	275·4	269·7	28th	277·8	*277·3*	−0·5	205	..
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	282·2	288·0	26th	274·1	270·2	1st, 16th	278·1	..	+2·7	79	+ 9
306	Kodiak (Radio)	57 46	152 22	6·1	..	993·9	— 8·3	284·1	289·1	10th	277·3	272·4	sev. dates	280·7	*280·1*	+1·6	270	+ 97
307	55°—50° N. 150°—145° W.	††51 27	††147 49	§ (28)	..	996·9	−10·5	..	..	Sea Temp. 282·4|0·0	..	..	..	..	281·9	−0·6	..	..
309	Sitka	57 3	135 19	27·4	..	1006·8	— 1·5	286·8	294·1	2nd	279·3	274·1	27th	283·1	*282·5*	+2·4	233	− 76
310	Prince Rupert	54 18	130 18	51·8	1008·0	1014·3	+ 2·3	287·4	294·1	1st, 12th	280·2	273·0	30th	283·8	*283·8*	+2·4	183	−240
311	Barkerville	53 2	121 35	1274	869·9	1016·0	+ 1·9	283·0	291·9	1st, 3rd	271·9	260·2	29th	277·4	*276·7*	+1·6	44	− 37
312	Kamloops	50 41	120 29	385	975·4	1021·8	+ 1·7	286·6	296·0	2nd	276·8	265·1	29th	281·7	*281·7*	+0·1	17	+ 2
313	Calgary	51 2	114 2	1045	896·5	1018·0	+ 4·5	288·0	299·1	14th	269·7	256·9	28th	278·8	*277·9*	+0·4	0	− 17
314	Fort Chipewyan	58 42	111 10	218	985·2	1011·9	— 0·4	283·0	295·8	1st	271·9	261·3	31st	277·4	*277·7*	+3·6	8	− 15
315	Prince Albert	53 10	105 38	442	964·6	1018·1	+ 4·5	286·9	296·9	2, 3, 7	271·9	264·1	30th	279·4	*278·3*	+2·8	5	− 17
316	Qu'Appelle	50 30	103 47	645	940·7	1017·8	+ 3·7	285·8	295·8	3rd	271·9	258·6	30th	278·8	*277·6*	+1·4	10	− 15
317	Minnedosa	50 15	99 50	515	956·5	1018·9	+ 3·6	284·3	295·1	7th	271·4	261·1	30th	277·9	*276·8*	+0·3	11	+ 51
318	Berens River	52 18	97 23	216	..	..	..	286·7	292·4	3rd	273·8	261·9	20th, 29th	280·2	..	+2·7	84	..
318*a*	ϕPort Nelson	57 0	92 51	14·9	1010·1	1011·9	— 0·8	279·1	298·6	6th	269·7	256·9	29th, 30th	274·4	..	+2·8	..	..
319	Fort Hope	51 33	87 49	‡260	984·7	1016·8	+ 2·7	281·3	294·7	2nd	270·8	258·0	29th	276·1	*276·1*	+1·6	20	− 12
320	ϕMoose Factory	51 14	80 30	9·1	1014·2	1015·3	+ 1·5	283·0	294·1	17th	274·1	259·7	31st	278·5	..	+1·4	28	− 59
321	Fort George	53 50	79 5	97·5	..	..	..	280·2	289·7	17th	273·4	264·7	30th	276·8	*276·7*	..	59	..
322	Mistassini Post	50 15	73 55	383	..	..	..	283·2	292·4	18th	273·7	261·9	31st	278·4	..	+3·2	28	− 21
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	282·7	288·6	14th	273·3	266·3	30th	278·0	..	+1·4	76	−120
326	Belle Isle	51 53	55 23	130	995·2	..	..	278·5	285·8	19th	274·4	268·0	28th	276·4	*276·4*	+0·6	27	..
331	55°—50°N. 30°—25°W.	††52 38	††27 38	§(41)	..	1007·1	..	..	..	Sea Temp. 284·4|−0·9	..	..	..	..	283·1	..	..	..
333	53°—48°N. 20°—15°W.	††50 54	††17 26	§(49-52)	..	1009·3	..	..	..	286·3|−0·7	..	..	..	..	284·6	..	..	..
333*a*	62°—57°N. 20°—15°W.	††59 15	††17 29	§(50)	..	..	..	..	..	282·7|−0·8	..	..	..	..	282·0	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1005·1	— 6·9	285·4	288·0	8th	281·6	275·8	15th	283·5	283·6	−0·2	177	+ 12
335	Aberdeen	57 10	W 2 6	20·8	..	996·8	−13·5	284·2	288·6	1st	278·4	274·1	4th	281·3	281·3	−0·1	89	+ 65
336	ϕGreenwich	51 28	0 0	46·3	..	1007·2	— 6·4	287·4	293·0	9th	280·4	273·6	5th	283·9	283·7	+0·8	129	..
337	Uccle	50 48	E 4 22	100	997·2	1009·2	— 5·3	289·1	296·8	1st	281·1	274·9	16th	285·1	284·2	+1·9	166	+ 63
338	De Bilt	52 6	5 11	3·0	1007·0	1007·4	— 6·5	287·7	296·2	1st	280·7	276·7	17th	284·2	283·7	+1·2	122	+ 49
338*a*	Hamburg	53 33	9 58	40·3	1001·8	1006·7	— 7·4	286·8	294·5	1st	281·2	277·0	16th	284·0	*283·7*	+1·4	78	+ 23
339	‡Copenhagen (Meteor Inst.)	55 41	12 36	5·0	1003·4	1004·0	— 9·4	286·0	293·3	1st	280·5	276·5	16th	283·3	*282·8*	+1·9	80	+ 22
340	Potsdam	52 23	13 4	84·9	999·1	1009·4	— 6·1	287·9	298·1	1st	280·7	275·1	31st	284·3	283·7	+2·2	67	+ 29
340*a*	Uppsala	59 51	17 38	24	996·4	999·3	−13·8	282·2	286·1	2nd	276·0	270·4	19th	279·1	279·2	+1·0	81	+ 49
341	Warsaw	52 13	21 3	89·9	999·6	1010·4	— 8·0	287·4	294·2	24th	280·1	275·0	17th	283·7	283·3	..	94	+ 7
342	Tart (Ülikooil)	58 23	26 43	74·5	994·3	1003·4	−12·0	282·8	288·2	24th	276·9	269·4	29th	279·8	279·6	+1·7	54	..
343	Petrograd	59 56	30 16	4·8	1002·3	1002·9	−12·3	281·5	286·1	8th	277·0	268·4	29th	279·2	*279·2*	+1·5	66	+ 21
344	Kiiv	50 27	30 30	183	990·7	1012·7	— 6·9	288·1	296·3	5th	279·7	274·3	20th	283·9	*283·4*	+3·1	32	− 14
344*a*	Moscow	55 50	37 33	167	988·4	1008·7	−10·5	282·9	293·4	6th	277·4	269·6	30th	280·2	*280·0*	+3·3	44	..
345	Saratov	51 33	45 57	122	997·6	1012·5	— 8·4	285·5	296·7	7th	278·0	271·8	29th	281·8	*281·5*	+4·0	70	+ 29
346	Kazan	55 47	49 8	79·9	1001·0	1010·8	— 9·2	284·1	294·1	8th	277·5	270·9	30th	280·8	*280·4*	+4·0	98	+ 7
347	Orenburg	51 45	55 6	109	1000·4	1013·7	— 8·9	285·2	295·3	8th	276·8	268·8	31st	281·0	*280·5*	+3·1	40	..
348	Perm	58 1	56 16	163	990·6	1010·5	— 7·3	282·7	291·7	1st	277·3	270·1	22nd	280·0	*279·6*	+5·5	54	+ 12
349	Sverdlovsk	56 50	60 38	281	977·2	1011·2	— 6·5	283·1	294·0	1st	276·1	268·4	22nd	279·6	*279·4*	+6·0	36	+ 25
350	Tobolsk	58 12	68 14	108	1000·4	1013·7	— 3·1	283·4	293·5	1st	274·8	267·6	16th	279·1	*278·9*	+5·9	37	+ 25
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	284·6	294·0	4th	275·2	268·8	18th	279·9	*279·6*	+4·7	50	+ 17
352	Omsk	55 1	73 19	108	1001·8	1015·1	— 4·6	284·8	294·2	12th	275·4	270·9	20th	280·1	*279·7*	+5·4	49	+ 17
353	Barnaoul	53 20	83 48	162	1000·0	1019·9	— 2·7	285·4	291·2	7th	275·5	271·1	21st	280·4	*279·9*	+5·5	51	..
354	Tomsk	56 30	84 58	122	1003·6	1018·8	— 1·1	..	289·2	13th	273·9	265·3	16th	..	*277·6*	+4·7	46	+ 3
355	ϕMinousinsk	53 43	91 41	248	991·6	1022·3	— 0·9	..	289·2	14th	271·5	258·1	31st	..	*277·1*	+2·8	22	+ 10
356	Eniseisk	58 27	92 10	77·6	1011·4	1021·2	+ 2·8	..	286·2	9th	268·8	254·3	18th	..	*272·6*	+0·9	55	+ 12
357	Irkutsk	52 16	104 19	467	965·0	1023·1	+ 0·1	277·4	290·8	14th	266·2	250·6	22nd	271·8	272·0	−0·9	30	..
358	Kirensk	57 47	108 7	278	986·3	1021·8	+ 1·4	..	284·5	8th	263·8	247·4	23rd	..	*267·6*	−2·7	..	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	+ 28
361	Tygan Ourkan	54 5	124 46	379	966·6	1013·9	— 4·2	275·3	285·5	3rd	264·8	250·5	27th	270·0	*270·3*	+1·3	38	+ 15
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	993·9	1011·5	— 5·6	279·4	289·4	11th	270·0	260·8	25th	274·7	*274·2*	−0·4	33	..
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	999·8	1010·6	+ 1·9	278·6	283·5	15th	273·6	268·0	30th	276·1	*275·9*	−0·7	85	− 18
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

OCTOBER—ZONE 4.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1008·1	1016·6	— 0·5	287·7	296·4	1st	281·4	278·0	31st	284·5	283·8	+1·3	44	− 21
412	Portland, Oregon	45 32	122 41	46·6	1012·0	1017·3	— 0·8	291·2	303·0	1st	282·7	276·9	31st	286·9	*286·5*	+1·9	41	− 42
413	Macleod	49 44	113 24	953	..	..	..	288·0	296·3	3rd	272·6	256·9	29th	280·3	*280·0*	+0·4	5	− 12
414	Helena	46 34	112 4	1253	876·4	1020·3	+ 1·6	283·7	293·0	14th	272·9	259·1	30th	278·3	*278·3*	−1·8	29	+ 7
415	Salt Lake City	40 46	111 54	1329	868·6	1017·3	— 0·4	285·6	295·2	4th	277·4	273·0	29th	281·5	*282·2*	−2·8	55	+ 16
416	Cheyenne	41 8	104 48	1856	814·6	1020·3	+ 0·5	281·6	294·1	8th	271·8	256·3	30th	276·7	*277·2*	−3·5	72	+ 51
416*a*	North Platte	41 8	100 45	860	921·7	1022·3	+ 3·8	286·8	298·0	8th	275·9	260·2	30th	281·4	*281·4*	−1·7	45	+ 18
417	Bismarck	46 47	100 38	510	959·9	1021·3	+ 4·4	286·7	295·2	3rd	274·3	264·1	31st	280·5	*280·4*	+0·5	26	+ 2
418	Winnipeg	49 53	97 7	232	990·1	1018·6	+ 3·7	285·2	296·3	2nd	273·6	261·9	30th	279·4	*278·6*	+1·6	13	− 22
	Duluth	46 47	92 6	345	978·6	1020·6	+ 4·7	284·9	296·9	10th	274·9	263·6	30th	279·9	*279·3*	+0·1	12	− 50
419	Port Arthur	48 27	89 12	196	995·4	1019·5	+ 3·6	283·6	294·7	2nd	274·7	263·6	30th	279·1	*278·7*	+1·0	32	− 29
421	Chicago	41 53	87 37	251	991·5	1022·0	+ 4·0	287·7	297·4	12th	281·1	269·7	31st	284·4	*285·0*	−1·3	116	+ 51
422	Toronto	43 40	79 24	116	1005·7	1019·9	+ 2·4	286·7	292·8	3rd	277·7	272·7	31st	282·2	281·9	0·0	42	− 23
423	ϕNew York (Central Park)	40 47	73 58	47·4	1013·7	1019·4	+ 1·3	291·0	296·3	14th	281·7	276·9	31st	286·3	285·9	−0·4	137	+ 41
424	ϕSt. John, N.B.	45 17	66 4	36·2	1013·1	1017·5	+ 1·6	286·1	291·6	17th	278·2	271·9	28th	282·1	282·1	+1·7	85	− 30
424*a*	S.W. Point, Anticosti	49 24	63 33	9·1	1013·7	1014·8	+ 1·6	282·0	285·2	18, 19, 20	277·1	270·8	27, 28, 31	279·6	*279·8*	+2·2	89	− 1
	Sable Island (Main Station)	43 57	60 6	7·6	1017·4	1018·3	+ 1·7	286·3	288·6	3, 4, 19	281·9	276·9	27th	284·1	*284·3*	−0·2	60	− 65
425	Port aux Basques	47 35	59 10	9·1	1014·7	1015·8	+ 1·7	283·9	289·4	1st	278·1	272·4	24th	281·0	*280·8*	+1·2	146	+ 7
426	St. John's, Newfoundland	47 34	52 42	48·8	1010·8	1016·8	+ 3·5	286·3	294·1	20th	278·1	272·4	28th, 31st	282·2	*281·9*	+1·8	98	− 39
430	50°—45° N. 35°—30° W.	††48 5	††32 30	§(21-24)	..	1009·2	..	..	..	Sea Temp. 287·6|−0·9	..	..	..	..	285·6	..	..	..
435	Madrid	40 24	3 41	667	941·2	1018·0	+ 1·2	293·8	301·2	2nd	283·9	277·6	28th	288·9	*288·0*	+2·7	22	− 20
436	Nantes	47 15	W 1 34	36·5	1008·6	1013·2	— 2·2	289·2	293·0	19th	281·8	273·0	15th	285·5	285·4	+1·3	132	+ 36
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1006·3	1012·7	— 3·2	289·3	297·8	1st	280·8	273·1	16th	285·1	284·7	+1·7	120	+ 65
438	Marseille	43 18	5 23	75	..	1015·2	+ 0·5	294·1	298·7	10th	285·5	279·6	15th	289·8	*289·0*	+1·2	69	− 29
438*a*	Zürich	47 23	8 33	493	957·7	1015·7	— 1·7	289·2	298·8	1st	280·8	273·4	18th	285·0	284·3	+2·7	133	+ 42
439	Rome	41 54	12 27	45·5	1012·4	1017·6	+ 1·6	296·5	300·7	1st	286·1	282·5	31st	291·3	*290·6*	+1·0	19	−109
440	Vienna	48 15	16 22	203	998·9	1014·1	— 3·4	288·2	296·3	25th	281·7	276·2	19th	284·9	284·6	+1·6	81	+ 34
440*a*	Budapest	47 31	19 2	130	998·9	1014·5	— 3·4	292·5	299·4	25th	281·5	275·5	17th	287·0	286·6	+3·3	79	+ 20
441	ϕSofia	42 42	23 20	550	953·6	1017·8	— 1·2	293·9	300·7	3rd	279·7	272·9	20th	286·8	*286·4*	+2·4	10	− 48
442	Bucharest	44 25	26 6	82	1006·1	1015·9	— 3·1	296·7	303·4	4th	281·2	274·7	20th	288·9	288·1	+3·5	10	− 33
443	Odessa (Observatory)	46 26	30 46	42·8	1010·2	1015·4	— 4·4	291·0	300·8	25th	283·8	276·9	2nd	287·4	*287·2*	+2·9	4	− 27
444	Kharkiv (University)	50 0	36 14	140	996·8	1013·8	— 7·2	286·9	296·9	6th	278·1	270·7	30th	282·5	*282·2*	+2·1	34	− 7
444*a*	Novorossiisk	44 44	37 49	37·1	1012·8	1017·3	— 1·5	292·3	301·8	15th	284·3	277·1	22nd	288·3	*288·1*	+0·6	129	+ 83
445	ϕTiflis	41 43	44 48	404	971·4	1018·7	— 2·4	293·2	299·7	18th	282·1	273·3	23rd	287·7	*287·4*	+0·9	30	− 7
446	Astrakhan	46 21	48 2	— 20	1019·6	1017·2	— 5·8	288·6	297·1	12th	280·1	270·5	31st	284·4	*284·0*	+1·3	26	+ 15
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1020·3	1017·5	— 4·4	289·2	295·7	9th	282·9	271·9	31st	286·0	*286·0*	+1·2	16	+ 3
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1018·6	1018·1	— 2·4	293·9	300·8	1st	287·6	282·2	23rd, 31st	290·8	*290·5*	+0·5	10	+ 1
449	Kasalinsk	45 46	62 7	66·7	1009·4	1017·5	— 5·0	..	..	..	278·1	273·9	17th	..	*283·2*	+2·8	59	+ 50
450	Tashkent	41 20	69 18	478	963·1	1019·3	— 2·8	292·7	303·4	3rd	280·8	276·6	15th	286·8	*286·1*	+1·1	46	+ 19
451	Narynskoe	41 26	76 2	†2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	922·2	1019·6	— 3·2	288·2	298·6	4th	278·1	272·3	24th	283·2	*283·1*	+2·0	68	+ 20
453	ϕMoukden	41 48	123 23	43·8	1011·3	1016·7	— 2·9	288·0	296·6	4th	275·1	265·2	23rd	281·5	281·1	−1·0	91	+ 51
454	Joshin	40 40	129 11	31·9	1011·4	1015·3	— 2·8	289·7	295·8	17th	280·0	271·5	24th	284·9	284·8	+0·2	38	− 2
455	Yuki	42 20	130 24	65·6	1007·0	1015·0	— 2·7	288·1	294·4	18th	278·1	269·6	25th	283·1	283·0	−0·2	19	− 26
456	Vadivostok	43 7	131 53	128	999·4	1015·0	— 3·2	286·4	292·8	18th	278·9	270·4	26th	282·6	*282·2*	−0·1	35	− 11
457	Olchiai	47 30	142 47	27·4	1008·0	1011·4	— 2·6	284·5	290·9	18th	275·1	268·0	27th	279·8	279·8	+0·1	83	− 16
458	Nemuro	43 20	145 35	26·7	1011·0	1014·2	— 1·5	287·2	292·2	19th	279·7	273·4	14th	283·5	283·9	+0·5	160	+ 63
458*a*	Syana	45 14	147 53	39·3	1008·8	1013·6	— 1·5	285·3	290·0	21st, 23rd	277·3	271·2	14th	281·3	281·9	+0·1	140	+ 28
		N.	E.															

Between Latitude 40° N. and 30° N.

OCTOBER—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
508	35°—30°N. 145°—140°W.	††32 4	††142 28	§(18)	..	1022·0	— 0·3	..	..	Sea Temp. 294·1|0·0	..	..	..	..	293·6	+0·6	..	..
512	San Francisco	37 48	122 26	47·2	1010·1	1015·9	— 0·7	293·9	303·0	19th	285·9	283·0	28th	289·9	*289·0*	+2·0	12	− 12
	San Luis Obispo	35 18	120 39	61·3	1007·9	1015·2	— 0·6	297·9	308·0	19th	283·2	278·0	25th	290·6	*289·0*	+1·4	4	− 19
513	San Diego	32 43	117 10	26·5	1010·1	1013·2	— 1·1	295·1	305·8	13th	286·9	283·6	23rd	291·0	*290·6*	+0·7	9	0
514	Modena	37 48	113 54	1670	833·4	1014·9	— 1·4	289·4	296·3	2nd	270·9	264·7	30th	280·1	*280·4*	−1·5	3	− 21
515	Santa Fé	35 41	105 57	2138	787·9	1015·6	— 0·9	286·3	295·2	7th	275·1	268·0	26th	280·7	*280·8*	−2·2	62	+ 34
516	Denver	39 45	105 0	1613	839·4	1010·6	+ 0·7	284·7	298·0	8th	274·9	266·9	26th	279·8	*280·3*	−3·5	89	+ 64
517	Abilene	32 23	99 40	530	956·9	1018·3	+ 0·9	293·8	305·2	2nd	284·1	276·3	31st	289·0	*288·2*	−2·2	194	+131
518	Saint Louis	38 38	90 12	173	1000·5	1021·3	+ 2·9	290·0	299·1	11th	281·4	271·3	31st	285·7	*285·9*	−1·9	95	+ 23
519	Mobile	30 41	88 2	17·4	1015·2	1017·3	— 0·1	297·8	306·3	2nd	287·7	278·0	24th	292·7	*292·3*	−0·1	143	+ 54
520	Nashville	36 10	86 47	166	1000·9	1021·0	+ 1·5	294·4	301·3	13th	281·8	271·9	31st	288·1	*287·9*	−0·7	31	− 30
521	Charleston	32 47	79 56	14·6	1016·8	1018·6	+ 0·5	295·6	300·2	19th	288·6	279·7	24th	292·1	*292·3*	−0·3	68	− 23
522	Washington	38 54	77 3	34·1	1015·9	1020·0	+ 1·1	291·9	300·8	14th	280·8	276·3	8th	286·4	*285·9*	−0·4	35	− 38
524	Bermuda	32 17	64 46	46·0	1011·1	1016·5	+ 0·2	298·9	301·3	5th	292·7	289·7	1st	295·8	*295·7*	−0·7	132	− 18
526	Santa Cruz (Flores)	39 27	31 9	40	1015·0	1019·9	— 0·3	295·3	298·6	3rd	290·8	287·3	31st	293·1	*293·2*	+1·1	88	− 56
531	ϕHorta	38 32	28 38	65	1011·4	1019·2	0·0	295·3	300·3	3rd	290·1	287·1	25th	292·7	292·7	+0·6	121	+ 8
532	Ponta Delgada	37 44	25 40	22	1016·2	1018·7	+ 0·4	295·1	298·1	4th	290·6	287·4	31st	292·9	292·8	+1·1	..	..
532*a*	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	52	− 80
534	Madeira (Funchal)	32 38	16 55	25	‡1016·7	‡1019·6	+ 1·5	297·0	299·9	19th	291·6	289·8	28th	294·3	*294·3*	+1·1	9	− 92
535	Lisbon	38 43	9 9	95	1006·0	1017·2	+ 0·2	295·5	303·6	10th	288·6	283·8	28th	292·0	291·7	+1·9	104	+ 21
536	Melilla	35 17	2 59	40	1013·3	1018·0	+ 0·7	297·7	302·5	25th	289·9	285·0	29th	293·8	*295·6*	−0·3	67	+ 24
536*a*	Gibraltar	36 6	5 21	16·2	..	1017·5	+ 0·2	296·2	300·8	12th	289·7	283·6	29th	292·9	*292·4*	+1·0	44	− 40
	Colomb-Béchar	31 36	2 4	769	933·4	1019·8	..	300·1	306·0	16th, 17th	287·0	277·4	30th	293·6	*292·9*	..	29	..
		N. ° ′	W. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

OCTOBER—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1013·7	1016·4	— 0·6	297·4	301·0	2nd	287·2	282·6	6th	292·3	..	+0·4	19	— 60
538	Algiers (Bouzaréah)	36 47	3 2	344	977·2	1016·8	+ 0·5	297·1	303·0	20th, 21st	290·6	285·0	5th	293·9	*293·2*	+2·0	65	— 22
539	ϕTunis	36 48	10 10	21	1014·4	1016·9	..	299·5	304·0	24th	288·2	284·7	20th	293·9	*293·5*	+1·2	17	— 30
539*a*	Malta	35 53	14 30	56·4	..	1018·6	+ 2·7	297·4	300·2	5th	292·2	289·7	21st, 22nd	294·8	*293·9*	+0·2	2	— 71
540	Riposto	37 41	15 14	14·2	..	1019·9	+ 2·2	296·5	300·6	4th	289·9	287·2	31st	293·2	*293·4*	+0·6	2	— 89
541	Athens	37 58	23 43	107	1004·6	1017·1	+ 0·2	297·5	300·3	2nd	288·9	284·5	20th	293·2	293·4	+1·5	8	— 34
542	ϕAlexandria	31 12	29 53	32·0	1012·7	1016·3	+ 0·3	301·9	309·2	6th	292·4	289·7	23rd	297·1	*296·3*	−0·1	5	— 1
543	Nicosia (P.W.D.)	35 9	33 22	159	996·4	1014·6	— 0·4	301·0	304·7	6th, 13th	286·9	281·9	26th	293·9	..	0·0	3	— 18
544	Beirut	33 54	35 28	33·7	..	1014·6	— 0·7	299·5	303·1	14th	293·7	290·1	22nd	296·6	*296·5*	−0·1	24	— 29
545	Hinaidi	33 17	44 29	32·3	..	1014·2	— 0·1	306·0	311·5	5th, 6th	288·9	280·1	29th	297·5	*298·3*	..	1	..
546	Lenkoran	38 46	48 52	—20·0	1020·3	1017·9	— 2·6	..	300·9	1st	286·6	282·9	29th	..	*290·0*	+0·6	204	+ 53
547	Tehran	35 41	51 25	1220	..	..	..	296·6	300·5	4 days	285·1	278·6	26th	290·8	*290·8*	−0·1	19	+ 11
548	Meshed	36 16	59 35	946	882·4	..	..	295·0	302·1	4th	278·4	274·9	1st	286·7	..	+0·3	11	+ 1
549	Seistan	31 0	61 30	610	..	..	..	301·5	307·9	4th	284·7	279·7	30th	293·1	..	..	9	+ 7
550	Quetta	30 11	67 3	1677	835·8	..	— 0·3	296·0	301·5	5th	277·5	273·6	1st	286·7	*286·7*	−0·2	11	+ 12
551	Peshawar	34 2	71 37	339	975·4	1014·7	+ 1·0	302·1	308·0	4th	287·2	282·3	30th	294·7	*293·9*	−1·1	16	+ 5
551*a*	Lahore	31 34	74 20	214	987·8	1012·5	+ 0·9	305·7	310·6	6th	289·2	283·8	31st	297·4	*296·6*	−0·7	11	+ 1
552	Simla	31 7	77 8	2204	783·9	..	+ 0·4	288·4	290·8	10th	282·8	278·5	30th	285·6	*285·6*	−1·6	99	+ 11
552*a*	Leh	34 10	77 42	3503	668·4	..	— 0·6	285·3	291·8	1st	272·0	265·1	30th	278·7	*277·8*	−1·3	15	..
559	Hankow	30 35	114 17	37·0	1014·5	1018·9	— 1·3	296·9	302·6	17th	287·0	280·9	11th	291·9	*291·6*	−0·1	16	— 69
560	ϕTientsin	39 10	117 10	5·0	1017·5	1018·1	— 2·4	291·6	298·7	17th	280·5	272·5	24th	286·1	*286·0*	−1·4	33	+ 15
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1017·8	— 1·3	297·3	300·5	19th	285·6	278·0	25th	291·4	290·2	−0·3	10	— 60
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1009·7	1017·8	— 1·2	291·5	296·2	7th	282·1	273·5	24th	286·8	286·5	−0·8	59	+ 12
562*a*	Nagasaki	32 44	129 52	133	1000·4	1016·0	— 0·8	294·3	300·1	5th	286·9	280·4	25th	290·6	290·4	−0·6	220	+ 105
563	Kyoto	35 1	135 44	42·9	1010·6	1015·7	— 0·8	295·7	299·9	5th	284·6	278·5	27th	290·1	289·3	+0·6	181	+ 48
564	Tokyo	35 41	139 46	5·8	1015·3	1016·0	— 0·8	294·3	298·5	21st	285·9	281·2	13th	290·1	289·8	+1·0	164	— 23
565	Kanayama	37 53	140 46	24·6	1013·2	1016·1	— 0·9	292·9	298·1	31st	282·2	276·4	18th	287·5	286·6	+0·1	180	+ 0
566	Miyako	39 38	141 59	30·4	1012·2	1015·9	— 0·8	291·8	297·9	30th	280·9	274·8	28th	286·3	285·8	+0·2	116	— 54

OCTOBER—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1019·3	+ 2·9	300·8	304·7	14th	292·2	289·7	24th	296·5	*295·9*	..	22	..
605	Honolulu	21 19	157 52	11·6	1014·4	1015·7	— 0·3	301·2	302·4	..	295·8	294·1	..	298·5	*298·3*	+0·6	56	+ 7
614	La Paz	24 10	110 20	12	1008·9	1010·3	..	303·3	308·0	1st	294·4	291·5	19, 21, 22	298·9	..	..	3	..
615	Chihuahua	28 38	106 4	1423	858·5	1010·9	..	296·8	300·0	sev. dates	283·2	278·0	17th, 19th	290·0	*291·7*	−0·3	24	+ 4
616	ϕLeon	21 7	101 41	1809	822·9	1013·7	+ 0·9	297·6	301·0	1st	283·4	277·6	23rd	290·5	*289·5*	−1·5	70	+ 10
616*a*	ϕMonterry	25 40	100 18	528	955·0	1015·1	+ 0·8	297·0	303·0	17th	289·9	282·6	20th	293·5	*292·6*	−1·9	58	+ 70
617	Tulancingo	20 5	98 22	2181	789·7	..	..	293·4	298·0	16th	282·7	275·2	20th	288·1	*287·1*	−0·6	133	+ 39
618	Galveston	29 18	94 50	16·5	1015·1	1017·3	0·0	297·3	304·1	3rd	292·2	284·7	31st	294·7	*294·9*	−0·6	79	— 37
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1016·6	— 0·3	297·9	306·9	1st	290·6	283·0	24th	294·2	*293·9*	−0·1	57	..
619	Merida, Yuc.	20 58	89 38	22	1010·1	1012·6	— 1·0	302·1	305·6	8th	294·9	290·4	24th	298·5	*297·5*	−0·4	72	+ 18
620	Havana	23 8	82 21	24·3	..	1013·9	+ 0·5	302·1	307·0	7th	295·8	294·0	24th, 25th	298·9	*298·4*	−0·3	224	+ 61
620*a*	Key West	24 33	81 48	6·7	1013·3	1013·9	+ 0·2	301·1	304·7	7th	296·1	290·8	24th	298·6	*298·0*	−0·4	35	— 107
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1015·2	+ 1·1	302·8	..	..	296·9	..	..	299·8	*299·8*	+0·3	132	— 29
622	Watling Island	24 6	74 26	33·5	..	..	..	..	304	20th	..	294	21, 23, 24	..	*297·9*	..	..	..
633	Izaña	28 19	16 30	2367	770·7	..	..	..	287·1	293·8	12th	280·0	273·3	30th	283·6	*283·0*	+1·7	27	— 36
634	La Laguna	28 28	W16 20	547	954·3	1016·8	+ 1·3	297·2	303·4	17th	287·5	284·2	11th	292·3	*291·6*	+0·5	24	..
641	Siwa	29 12	E 25 29	— 23	1018·4	1015·8	..	303·9	311·0	6th, 7th	287·1	283·0	23, 24, 30	295·5	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	1001·9	1015·1	+ 0·5	301·4	311·2	6th	290·5	286·3	31st	295·9	*295·7*	−0·8	14	+ 14
643*a*	Aswan	24 2	32 53	99·6	1000·4	1011·6	+ 0·3	309·6	316·7	5th	294·0	288·0	26, 29, 31	301·8	*301·0*	+0·4	..	..
644	Tor	28 14	33 37	1·9	1012·2	1012·4	— 0·1	301·7	305·1	6th	291·4	286·9	27th	296·6	*296·9*	+0·1	0	..
647	Bushire	28 59	50 53	4·3	1012·6	1013·1	+ 0·1	303·5	307·1	18th	295·3	290·5	25th, 26th	299·4	*298·7*	0·0	0	+ 4
648	Jask	25 44	57 47	4·0	1012·6	1013·0	+ 0·6	305·9	310·2	6th	296·9	291·4	27th	301·4	*300·7*	0·0	47	+ 40
649	Karachi	24 53	66 57	4·0	1012·3	1012·8	+ 0·9	302·7	305·9	1st	295·5	291·0	31st	299·1	*298·4*	−0·8	0	— 1
650	Jacobabad	28 17	68 29	56·7	1005·8	1012·4	+ 1·3	308·3	312·7	4th	291·1	285·0	31st	299·7	*298·9*	−0·6	0	— 3
651	Jaipur	26 56	75 52	436	964·4	1013·4	+ 1·1	307·4	308·9	17th	290·6	288·0	25th	299·0	*298·2*	−0·3	6	— 3
652	Nagpur	21 8	79 5	310	978·3	1013·3	+ 1·5	304·2	306·2	10th	291·4	288·2	28th	297·8	*297·3*	−1·3	3	— 5
653	Allahabad	25 25	81 51	94·2	1002·5	1012·7	+ 1·9	305·3	306·9	21st	291·9	288·3	31st	298·6	*297·8*	−0·7	52	+ 61
653*a*	Darjeeling	27 3	88 18	2265	778·4	..	0·0	288·9	292·9	1st	282·4	280·4	23rd, 26th	285·7	*285·7*	−0·4	54	+ 20
654	Calcutta	22 36	88 23	6·4	1011·4	1012·1	+ 1·1	303·9	305·7	3rd	296·1	292·8	28th	300·0	*299·7*	+0·1	135	— 61
655	Gauhati	26 8	91 41	59·7	1005·7	1012·8	0·0	303·9	307·1	3rd	293·7	290·6	27th, 31st	298·8	*298·1*	−0·3	98	— 44
655*m*	Cherrapunji	25 15	91 42	1313	870·3	..	+ 0·3	294·8	297·4	3rd	288·7	285·7	29th	291·7	*291·1*	−0·2	968	+ 75
655*a*	Akyab	20 11	92 56	6·1	1010·8	1011·5	+ 0·4	303·2	304·2	2, 25, 28	296·7	294·3	30th	299·9	*299·5*	−0·8	352	+ 40
656	Mandalay	21 59	96 0	76·2	1003·6	1012·3	+ 0·5	306·0	308·6	1st	296·7	294·4	31st	301·3	*300·9*	−0·2	168	+ 27
656*a*	Tengyueh	25 2	98 33	1626	835·4	1009·0	+ 0·1	294·7	296·9	8th	283·3	277·4	28th	289·0	288·2	−0·8	177	— 68
657	ϕPhu Lien	20 48	106 38	116	999·6	1012·9	— 0·4	303·8	308·0	29th	295·8	290·8	15th	299·8	298·9	+1·2	68	+ 316
658	ϕMoncay	21 31	107 51	9·0	1012·3	1013·3	— 0·3	302·7	306·7	2nd	294·4	292·1	16th	298·5	*298·6*	+0·4	484	+ 323
659	ϕHongkong	22 18	114 10	33·2	..	1013·7	+ 0·1	299·8	303·8	2nd	295·5	292·6	11th	297·7	297·4	−0·2	453	..
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1013·8	1014·9	+ 0·1	299·5	304·7	31st	291·5	283·8	12th	295·5	295·1	−0·9	111	— 14
661*a*	Basco	20 28	121 59	18·7	..	1010·5	+ 0·7	301·5	305·1	3rd	296·5	293·6	15th	299·0	*299·1*	−0·5	328	— 317
662	ϕNaha	26 13	127 41	10·5	1012·0	1013·2	+ 1·2	300·6	304·7	2nd	294·0	288·4	26th	297·3	297·1	+0·2	284	+ 121
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1013·1	1013·5	— 0·2	301·7	303·2	7th	295·9	292·1	28th	298·8	298·4	−0·1	67	— 67
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡See "Remarks," page 109.
ϕ Change of normals *see* pages 109 and 110.

OCTOBER—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	954·7	1010·4	..	302·5	305·4	22nd	292·7	290·3	22nd, 25th	297·6	*296·3*	0·0	260	..
716	Morelia	19 42	101 7	1923	810·1	1011·9	..	293·3	295·8	30th	284·9	280·1	19th	289·1	*288·2*	−0·8	126	..
718	Mexico, Tacubaya	19 24	99 12	2309	774·4	..	— 0·8	294·7	298·9	7th	282·1	277·4	20th	288·4	287·4	−0·2	54	+ 3
	ϕSalina Cruz	16 12	95 12	56	1004·0	1010·4	— 1·5	302·0	306·0	sev. dates.	296·0	292·5	24th	299·0	*299·2*	−0·7	134	+ 48
719	ϕSan Salvador	13 42	89 12	682	936·6	1012·5	+ 0·8	302·0	305·0	2nd	290·5	283·8	24th	296·3	*294·9*	−1·0	222	— 45
721	Belize	17 29	88 12	5·2	1011·2	1011·8	0·0	303·1	306·1	17th, 18th	295·2	288·0	23rd	299·2	*298·7*	−0·7	51	—210
722	Jamaica (Negril Point)	18 15	78 23	10·1	..	1010·6	— 0·2	303·3	305·9	4th	295·8	294·4	16th	299·6	*299·3*	0·0	205	— 1
723	Port au Prince	18 33	72 20	37·4	1007·8	1012·1	— 0·1	304·4	308·3	7th	295·3	294·0	31st	299·9	*299·3*	−0·1	154	— 13
724	Caracas	10 30	66 56	1042	898·6	1012·7	+ 0·5	299·1	302·2	13th	288·5	286·0	22nd	293·8	*292·7*	−0·5	139	+ 42
724*a*	Montserrat	16 42	62 9	36·6	1008·2	1012·4	— 1·0	303·0	305·8	10th	296·0	293·0	17th	299·5	*299·0*	−0·4	246	+ 44
725	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡993·7	‡1011·5	+ 0·2	302·7	305·2	31st	297·2	296·3	5, 14, 21	299·9	*299·3*	+0·2	89	—107
726	Barbados	13 8	59 36	55·2	..	1011·9	— 0·5	302·4	304·0	9th	..	..	..	..	*299·2*	+0·3	127	— 67
731	São Vicente, C. Verde Is.	16 54	25 4	11	1011·9	1013·1	— 0·3	300·9	303·0	2nd	295·2	293·5	1st	298·0	*299·0*	+0·2	0	— 30
732	San Tiago, C. Verde Is.	14 54	23 31	34	1008·9	1012·7	— 1·1	302·5	304·5	2nd	298·1	296·8	23rd	300·3	*300·2*	+0·6	9	— 24
733	Bathurst	13 27	16 34	1·8	..	1013·7	+ 0·6	304·0	305·2	7, 19, 31	295·8	294·1	26th	299·9	*300·3*	−0·3	87	— 6
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	306·8	310·2	27th	297·2	294·7	31st	302·0	..	+0·7	60	— 4
735	Niénébalé	12 57	7 26	300	..	..	..	306·5	308·8	21st	293·8	291·6	26th	300·1	..	..	26	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	312·1	314·2	12th	296·5	293·5	31st	304·3	*303·6*	−0·3	4	+ 1
737	ϕSokoto	13 2	E 5 14	353	..	..	..	309·2	311·9	17th	294·3	291·3	27th, 28th	301·7	*301·0*	+0·1	29	+ 14
738	Kaduna Capital	10 32	7 25	637	945·2	1015·8	+ 1·9	303·7	308·6	23rd	..	..	..	..	‡*298·1*	+0·3	71	+ 9
739	Hadejia	12 40	10 5	?	..	..	..	308·1	309·7	6th, 13th	293·3	289·7	30th	300·7	*300·0*	−0·4	0	— 8
740	ϕMaiduguri	11 47	13 11	361	..	..	..	308·8	314·7	18th	294·3	291·3	25th	301·6	*300·9*	−0·3	78	+ 63
741	El Fasher	13 32	25 18	730	..	..	..	308·3	*311·1*	4th	291·7	285·0	27th	300·0	*299·6*	..	34	..
743	El Obeid	13 11	30 14	569	946·0	1008·3	— 0·3	309·3	311·3	11th	293·6	288·5	28th	301·4	*300·8*	+0·4	16	— 2
744	ϕKhartoum	15 37	32 33	390	965·0	1007·9	— 0·2	310·9	314·6	13th	296·3	291·5	28th, 31st	303·7	*303·5*	−1·1	0	— 5
745	Port Sudan	19 37	37 13	5·5	1009·5	1010·3	— 0·6	307·1	311·2	6th, 7th	299·3	295·9	25th	303·2	?*302·5*	+0·8	6	— 2
746	Berbera, Somaliland	10 22	45 2	9·5	1011·6	1012·6	+ 0·2	307·4	313·0	1st, 5th	296·0	294·1	17th	302·0	*302·2*	−0·2	30	+ 29
	Aden	12 45	45 3	28·7	1009·7	1012·9	+ 0·5	305·3	307·9	9th	298·7	296·7	16th	302·0	*301·1*	+0·2	0	— 2
751	Bombay	18 54	72 49	11·3	1011·2	1012·5	+ 0·9	304·8	307·1	18th	298·1	296·6	1st	301·4	300·4	+0·4	0	— 55
754*a*	Kodaikanal	10 14	77 28	2343	771·2	..	+ 0·1	289·9	293·1	5th	283·6	281·9	5th	286·7	*286·2*	−0·1	353	+107
754	Bangalore	12 59	77 38	921	911·4	1011·8	+ 0·7	301·8	304·6	15th	291·5	289·7	31st	296·7	*295·8*	+0·7	33	—117
753	Madras	13 4	80 14	6·7	1010·4	1011·2	+ 0·6	305·2	309·9	1st	297·0	294·9	19th	301·1	*300·2*	+0·1	404	+106
	Vizagapatam	17 42	83 19	11·6	1010·2	1011·6	+ 1·1	303·6	307·4	10th	297·9	295·8	24th	300·8	*300·1*	−0·1	274	+ 94
755	Port Blair	11 40	92 40	18·0	1009·3	1011·4	+ 0·5	302·7	303·6	29th	297·9	296·2	2nd	300·3	*299·6*	−0·2	132	—149
756	Rangoon	16 46	95 48	5·5	1011·7	1012·3	+ 0·8	304·5	306·7	25th	297·8	296·7	16th	301·1	300·2	+0·4	128	— 48
758	Saigon, (Cap St. Jacques)	10 20	107 5	180	990·0	1010·7	+ 1·7	301·5	304·2	31st	296·4	295·0	3rd	298·9	*298·5*	−0·2	216	— 2
759	Nhatrang	12 15	109 12	3·6	1010·6	1011·0	+ 1·2	302·9	304·8	31st	296·0	294·8	12th	299·5	*299·0*	−0·1	432	+ 86
	Bolinao	16 23	119 53	7·1	..	1007·9	+ 0·5	305·0	306·8	29th	295·1	?292·3	30th	300·1	*300·0*	−0·2	47	—137
761*a*	Vigan	17 34	120 23	12·2	..	1009·2	+ 0·6	305·0	306·5	21st, 26th	296·9	295·7	10th	300·9	300·5	+0·2	17	—161
761	Manila	14 35	120 59	14·2	..	1009·9	+ 1·1	304·4	306·2	15th	295·6	293·4	29th	300·0	299·1	−0·5	31	—139
762	ϕOrmoc	11 0	124 36	5·6	..	1008·6	+ 0·6	305·3	306·9	25th	295·7	293·7	18th	300·5	*299·2*	+0·2	199	— 38
765	Guam, Ladrone Is.	13 24	144 38	18·6	..	1007·6	— 0·2	303·0	304·8	1st	297·2	295·4	14th	300·1	*299·8*	−0·2	320	— 20

Between Latitude 10° N. and 0°.

OCTOBER—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
765	Fanning Island	3 54	159 23	5·3	1011·3	1011·8	..	307·1	309·8	11th	298·2	295·8	1st	302·7	*302·1*	+1·6	121	+ 17
771	Colon	9 23	79 23	11·0	..	1010·3	— 0·3	302·6	306·9	19th	296·6	294·1	23rd	299·6	*299·2*	+0·1	1071	+687
772	Bogota	4 36	74 5	2645	744·2	..	..	291·6	294·6	7th	282·6	279·1	31st	287·1	*286·6*	..	87	— 76
772*a*	Merida, Venez..	8 36	71 9	1641	‡840·6	..	— 0·4	296·3	299·0	4th, 5th	288·3	286·5	31st	292·3	*291·2*	−0·3	330	+ 58
773	Ciudad Bolivar	8 9	63 33	38	1005·0	1009·3	..	305·4	306·5	19th	297·2	293·7	28th	301·3	*300·8*	..	90	— 25
774	ϕEl Peru, Guayanavieja	7 19	61 49	220	984·5	1009·4	+ 0·1	304·0	305·2	25th	293·2	291·7	31st	298·6	*297·9*	−0·2	72	— 22
775	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1011·7	+ 0·1	303·7	304·7	30th	297·3	295·8	9th, 10th	300·5	*300·3*	−0·3	83	+ 8
776	Paramaribo	5 49	55 9	3·7	‡1012·4	‡1012·8	+ 0·6	306·0	307·7	1st	294·7	293·0	19th	300·3	299·8	+0·4	101	+ 29
	Cayenne	4 56	52 21	6	..	..	..	306·4	308·0	4th	295·7	295·0	sev. dates	301·1	*300·7*	+0·9	47	+ 13
777	10°—5° N. 30°—25° W.	†††7 18	††27 30	§(92-108)	..	1012·7	+ 0·5	..	..	Sea Temp. 300·0	−0·2	..	..	..	..	..	..	..
778	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	299·3	−0·2	..	..	..
779	Freetown, Sierra Leone	8 29	13 9	68·3	1004·0	1011·9	+ 0·3	303·4	305·2	28th	295·5	294·1	13th, 21st	299·4	*298·6*	−0·3	300	— 21
780	Assuantsi	5 18	1 15	101	..	..	..	302·0	304·1	23rd, 27th	294·3	291·9	19th	298·1	*297·6*	..	113	— 6
781	ϕAccra	5 33	W 0 12	27·0	1008·3	1011·4	..	302·5	304·1	17th	295·2	294·1	sev. dates	298·9	*298·4*	+0·2	113	+ 55
782	ϕLagos	6 27	E 3 24	4·6	1010·9	1011·5	+ 0·5	302·8	304·7	15th	296·4	294·7	6th	299·6	*298·8*	+0·1	136	— 61
783	Zungeru	9 48	6 10	130	..	..	..	306·3	?308·6	30th	294·2	?293·0	6th, 12th	300·3	*299·6*	+0·4	127	+ 47
784	ϕYola	9 12	12 30	259	..	..	..	305·6	308·0	20th	..	..	..	..	‡*299·7*	−0·3	111	+ 30
	Wau	7 42	28 3	440	..	..	..	..	..	..	293·8	293·0	sev. dates	..	..	..	128	+ 1
787	Malakal (Kodok)	9 35	31 37	394	965·4	1009·5	+ 0·4	?306·7	?309·6	20th	294·0	290·1	29th	?300·4	?*299·0*	+0·2	9	— 74
788	Mongalla	5 11	31 47	439	959·1	1007·9	— 0·5	306·2	311·0	11th	292·7	291·0	30th	299·4	?*298·4*	−0·2	141	+ 32
789	ϕEntebbe	0 5	32 29	1171	883·4	1009·2	— 0·2	299·1	300·8	14th	289·9	288·0	27th	294·5	*294·6*	+0·7	199	+110

OCTOBER—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1010·0	1010·9	+ 0·4	..	..	..	297·5	295·2	14th	..	..	..	6	— 19
924	ϕManaos	3 8	60 1	43·8	..	..	..	307·6	310·0	29th	297·3	294·4	19th	302·4	..	..	29	— 77
926	Taperinha	2 30	54 20	20·0	1008·0	1010·4	— 0·2	306·4	307·7	18th, 31st	295·2	293·6	31st	300·8	*299·4*	+0·1	124	+ 88
927	ϕTuryassu	1 43	45 26	9·1	1009·2	1010·4	— 0·7	306·1	307·8	28th	295·7	292·7	21st	300·9	*300·0*	+0·1	4	— 7
928	ϕBarra do Corda	5 30	45 16	81·0	999·5	1008·9	— 0·9	306·8	308·6	7th, 16th	295·1	293·0	16th	301·0	*299·8*	+0·1	32	— 10
929	Quixeramobim	5 16	39 15	207	988·3	1011·7	— 0·1	306·0	307·4	10th	297·8	297·2	31st	301·9	*301·4*	+0·2	0	— 1
930	ϕFernando Noronha	3 50	32 25	106	1000·4	1012·2	— 0·7	300·9	301·8	25th	296·9	295·0	15th	298·9	*298·3*	+0·3	11	+ 3
934	Ascension Island	7 56	W14 25	16·8	1012·5	1014·4	— 0·9	301·9	304·1	27th	294·9	293·0	6th	298·4	*297·6*	+0·9	9	+ 2
939	Loanda	8 49	E 13 13	51	..	1012·1	— 0·4	298·5	300·4	29th	293·6	291·2	3rd	296·1	*295·5*	—0·8	1	— 6
940	Brazzaville	4 17	15 16	321	977·6	1013·8	+ 1·6	305·0	308·0	11th	293·6	291·0	2nd	299·3	*298·6*	0·0	147	+ 17
943	Masaka	0 21	31 47	?1280	..	..	..	304·8	306·3	21st	..	..	..	..	*292·6*	0·0	100	+ 5
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	298·0	300·8	4, 22, 27	286·3	283·0	3rd	292·2	..	..	41	— 10
944*a*	Zanzibar	6 10	39 11	21·9	1014·3	1016·8	+ 0·2	301·9	303·1	24th	297·2	296·4	10th	299·5	*298·7*	+0·2	33	— 58
945	ϕLamu	2 16	40 50	3·0	..	..	..	301·2	302·4	27th, 29th	297·1	294·7	15th	299·1	*298·7*	—0·8	103	+ 73
947	Seychelles, Port Office	4 37	55 27	4·6	1011·7	1012·3	0·0	300·7	302·3	7th	298·2	296·7	13th, 27th	299·4	*298·6*	+0·2	384	+350
957	ϕPadang	0 56	100 22	6·7	1009·7	1010·4	— 0·6	..	..	..	..	..	..	..	..	..	315	+194
958	Batavia	6 11	106 50	8·0	1009·8	1010·7	+ 0·5	305·3	308·1	22nd	296·5	295·4	9th, 27th	300·9	300·5	+0·9	20	— 88
958*a*	Pontianak	0 1	109 20	2·6	1010·9	1011·2	+ 0·9	..	..	..	..	..	..	..	..	..	860	+477
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	0	— 21
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	0	— 47
962	Amboina	3 42	128 10	4·2	1010·4	1010·9	+ 0·7	..	..	..	..	..	..	..	..	..	55	—105
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	73	— 38
965	Daru	9 4	143 13	7·6	..	1011·7	+ 0·4	302·2	..	..	296·9	..	..	299·5	*299·1*	—0·1	28	— 32
966	ϕPort Moresby	9 29	147 9	39·0	..	1012·0	+ 0·5	302·7	..	..	296·7	..	..	299·7	*299·3*	+0·1	11	— 15
967	Rabaul	4 9	152 12	20·7	..	1009·5	..	306·3	308·3	11th	295·4	294·4	13th	300·9	*300·2*	+0·1	140	+ 58
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1011·1	1011·4	+ 1·3	303·4	305·6	23rd	297·0	293·6	8th	300·2	*300·0*	—0·2	320	+101
970	Ocean Island	0 52	169 35	54·0	1002·7	1008·9	+ 0·7	304·7	306·3	25th	296·9	294·7	13th, 17th	300·8	*300·0*	—0·2	138	— 3

OCTOBER—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1012·4	+ 0·9	303·8	305·2	11th	295·4	292·1	15th	299·6	298·7	—0·3	79	— 83
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	302·3	304·7	17, 22, 27	291·3	286·3	4th	296·8	*296·6*	—0·8	67	— 11
1021	ϕArequipa	16 22	71 33	2452	761·4	..	+ 0·5	292·9	295·8	1st	282·1	279·1	26th	287·5	*287·4*	+0·1	2	+ 1
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	283·5	282·0	20th, 21st	..	*288·4*	..	7	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·0	..	..	..	298·0	11th	..	281·0	22nd	..	*288·4*	..	25	— 11
1025	ϕCorumba	18 59	57 39	116	995·6	1008·7	— 0·8	303·4	309·2	29th	294·3	291·6	21st	298·8	*298·4*	—0·3	152	+ 50
1026	ϕCuyaba	15 36	56 6	165	990·6	1009·3	— 0·2	305·4	308·5	1st, 18th	294·8	293·2	3rd, 13th	300·1	*298·9*	—0·5	150	+ 36
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	915·2	1013·9	+ 0·2	300·9	304·6	29th	289·4	286·1	3rd, 20th	295·2	*294·9*	—1·2	72	— 92
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1007·5	1012·8	— 1·1	301·1	302·9	11th, 23rd	295·5	294·3	1st	298·3	*298·0*	+0·5	27	— 15
1030	ϕAracaju	10 55	37 3	6·1	1013·8	1014·6	— 0·3	301·0	302·1	31st	295·3	292·9	3rd	298·2	*298·3*	—0·6	40	— 7
1035	St. Helena	15 57	W 5 40	‡604	947·4	1017·1	+ 1·5	291·7	293·6	7th, 9th	284·7	284·1	sev. dates	288·2	*287·7*	+0·3	42	— 31
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	298·8	12th	..	286·9	10th	..	*292·8*	..	10	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	21	+ 1
1041*a*	Elisabethville	11 39	27 28	1236	877·9	1009·5	+ 1·6	306·0	307·8	3, 19, 25	287·5	283·4	1, 2, 8	296·7	..	0·0	36	— 10
1042	Gwelo	19 28	29 48	1417	863·9	1013·7	+ 1·7	306·0	309·7	26th	286·8	279·7	7th, 9th	296·4	..	+1·9	1	— 24
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡854·1	‡1009·5	— 0·3	304·6	309·3	25th	284·9	278·7	5th, 6th	294·7	*293·6*	+0·2	5	— 27
1044	Zomba	15 23	35 18	955	907·6	1011·2	— 0·6	302·7	306·9	26th	291·1	285·2	8th	296·9	*296·6*	+0·5	12	— 23
1045	ϕAntananarivo	18 55	47 33	1375	866·6	1014·6	+ 0·5	299·9	305·0	25th	284·3	281·0	16th	292·1	291·9	+0·4	41	— 21
1046	Tamatave	18 10	49 24	5	..	..	..	299·4	301·5	..	291·7	288·0	..	295·5	*295·0*	..	30	— 47
1047	Vohémar	13 21	50 1	3	..	..	..	304·2	305·7	..	293·6	291·8	..	298·9	*298·2*	..	14	..
1048	Antalaha	14 58	50 19	3	1015·9	1016·2	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1016·1	1016·7	+ 1·8	300·8	303·6	22nd	296·6	294·4	3rd	298·7	298·3	—0·9	22	— 93
1057	ϕChristmas Island	10 25	105 43	5·5	1010·3	1010·9	+ 0·9	303·9	305·2	25th	295·8	293·0	17th	299·8	*299·3*	—0·4	2	— 75
1061	Kupang	10 10	123 34	45·1	1006·5	1011·9	+ 0·8	306·2	308·8	31st	295·1	292·8	6th	300·6	300·0	—0·2	5	— 15
1061*a*	ϕDerby	17 18	123 40	16·2	1010·4	1012·4	+ 1·0	307·3	313·0	10th, 31st	295·1	291·8	2nd	301·2	..	—0·9	7	+ 6
1062	ϕHall's Creek	18 13	127 46	373	970·4	1011·3	+ 0·4	309·2	312·1	22nd	292·4	284·1	5th	300·8	*300·2*	—0·8	10	— 30
1063	Darwin	12 28	130 51	29·6	1008·4	1011·7	+ 1·5	306·1	308·1	14th	297·7	295·1	5th	301·9	*300·8*	—0·7	25	— 14
1064	Daly Waters	16 16	133 23	211	986·0	1009·2	— 0·6	310·9	314·7	10th, 11th	294·0	286·3	4th	302·4	*301·8*	—0·5	7	— 19
1065	ϕMein	13 13	142 47	122	997·0	1010·5	— 0·1	306·4	311·4	11th	292·5	287·3	4th	299·4	..	—0·9	4	..
1066	ϕGeorgetown, Queensland	18 22	143 32	302	979·5	1012·9	+ 0·7	308·4	310·9	26th	291·6	283·6	2nd, 3rd	300·0	..	—0·5	0	..
1066*a*	Willis Island	16 18	149 59	8·5	1012·8	1013·9	..	300·4	301·4	13th	296·3	294·9	1st	298·3	*297·9*	..		+ 43
1067	Samarai	10 37	150 40	15·2	..	1012·3	+ 0·9	302·1	..	..	295·8	..	..	298·9	*298·7*	—0·1	210	+ 57
1072	Suva, Fiji	18 8	178 26	6·1	1015·3	1016·1	+ 1·5	299·4	301·8	11th, 12th	292·1	287·1	3rd	295·8	*295·6*	—1·6	240	+ 57
		° ′ S.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112.
ϕ Change of normals *see* pages 112 and 113.

OCTOBER—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	298·9	300·2	11th, 20th	292·1	287·4	21st	295·5	*295·3*	—0·2	24	— 79
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1014·4	1017·7	+ 0·6	289·6	292·2	29th	284·0	280·4	2nd	286·8	*286·8*	+0·3	0	— 1
1122	Iquique	20 12	70 11	9	1015·8	1016·9	+ 0·8	293·0	295·8	15th	286·7	284·3	7th	289·9	*290·2*	0·0	0	0
1123	Catamarca	28 27	65 47	510	952·2	1009·9	— 0·6	299·3	307·7	29th	287·7	282·2	11th	293·5	293·0	—1·8	2	— 26
1124	Salta	24 46	65 28	1178	881·4	1010·6	— 0·5	296·8	304·4	8th	285·7	278·6	11th	291·3	290·7	—1·5	37	+ 5
1125	Goya	29 9	59 15	26	1009·7	1012·8	+ 0·7	297·9	303·5	18th	286·0	282·0	12th	291·9	291·2	—1·6	133	+ 20
1126	Asuncion	25 17	57 41	93	1000·7	1011·6	— 0·5	303·0	309·0	6th	290·3	285·0	21st	296·6	295·9	+0·2	333	+194
1127	Curityba	25 25	49 17	908	912·7	1014·3	— 1·0	294·4	301·0	28th	284·4	279·4	19th	289·4	*288·6*	—0·3	83	— 60
1128	Rio de Janeiro	22 54	W43 10	33·0	1010·6	1014·4	— 0·1	298·6	306·2	27th	291·3	287·7	19th	295·0	294·6	+0·1	‡14	..
1139	ϕWindhoek	22 34	E.17 5	1669	..	..	..	301·1	304·5	11th	288·6	282·8	4th	294·8	*295·0*	..	21	+ 10
1140																		
1141	Kimberley	28 42	24 47	1202	882·7	1011·5	+ 0·6	304·6	310·3	2nd	287·4	280·7	4th	296·0	295·8	+3·4	9	— 17
1142	Johannesburg	26 11	28 4	1806	824·3	1013·7	+ 1·3	299·4	304·0	2nd	285·9	274·7	5th	292·7	*292·4*	+2·6	21	— 44
1143	Bulawayo	20 9	28 35	1340	869·5	1011·9	+ 0·6	304·1	308·4	3rd	287·8	280·4	7th	295·9	*295·6*	+0·5	0	— 23
1144	Durban	29 52	31 3	15·2	1016·5	1018·3	— 0·3	297·7	301·0	24th	291·8	286·8	6th	294·8	*294·2*	+1·6	51	— 80
1145	Lourenço Marques	25 58	32 36	59	..	1016·8	— 0·2	301·6	312·8	23rd	291·3	284·6	6th	296·4	296·0	+0·9	9	— 50
1146	Tuléar	23 23	43 40	4	..	..	..	..	..	..	..	..	..	..	..	..	15	..
1147	Fort Dauphin	25 2	46 58	25	..	1018·2	..	297·0	300·0	..	285·4	280·0	..	291·2	*290·4*	..	81	..
	Mauritius	20 6	57 33	55·2	1011·5	1017·9	— 0·3	299·3	301·8	23rd	291·1	286·5	17th	295·2	294·8	—0·4	52	+ 17
1159	Onslow	21 43	114 57	4·3	1012·1	1012·9	+ 0·2	305·4	312·6	27th	288·1	285·1	4th	296·8	..	—0·1	0	— 1
1160	Cue	27 27	117 52	454	963·9	1015·3	+ 1·6	300·0	308·6	26th	285·4	279·7	8th	292·7	..	—0·8	0	— 6
1161	ϕNullagine	21 53	120 5	386	969·1	1011·6	+ 0·1	307·8	312·4	27th	288·9	282·3	14th	298·4	..	—0·5	0	— 5
1162	Laverton	28 40	122 23	466	962·3	1014·5	0·0	301·7	309·9	19th	286·0	280·7	6th	293·8	*293·7*	+0·9	0	— 8
1163	Alice Springs	23 38	133 37	587	948·1	1013·0	— 0·7	302·8	308·8	6th	286·8	278·6	2nd	294·8	*294·8*	—1·1	53	+ 34
1164	ϕWilliam Creek	28 55	136 21	76·2	1006·6	1015·4	+ 0·9	301·3	312·4	28th	284·8	279·9	3rd, 12th	293·0	*292·7*	—1·3	1	— 9
1165	Boulia	22 55	139 38	146	996·1	1012·5	+ 0·8	306·3	314·2	24th	288·7	281·9	13th	297·5	*297·5*	—1·6	0	— 13
1166	Thargomindah	27 58	143 43	123	999·3	1013·3	— 0·5	302·6	312·1	22nd	287·6	280·3	1st, 3rd	295·1	*294·8*	—0·4	22	+ 1
	Mitchell	26 32	147 52	336	976·0	1013·5	..	302·4	311·1	24th	284·4	275·2	3rd	293·4	..	+0·1	28	— 7
1167	ϕRockhampton	23 24	150 30	11·3	1013·6	1015·0	— 0·5	304·5	310·8	10th	290·2	285·3	4th	297·3	..	+0·5	3	— 45
1168	ϕBrisbane	27 28	153 2	41·8	1010·6	1015·4	— 0·6	300·1	307·5	10th	289·2	283·6	5th	294·7	*294·1*	+0·7	11	— 55
1170	ϕNorfolk Island	29 4	167 59	15·2	1015·9	1017·7	0·0	294·4	298·6	13th, 27th	288·3	283·0	1st	291·4	*291·0*	+0·2	47	— 55
		° ′ S.	° ′ E.															

Between Latitude 30° S. and 40° S.

OCTOBER—ZONE 12.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1221	Juan Fernandez	33 37	78 50	345	..	..	..	285·9	290·0	12th	280·2	275·0	5th	283·1	*283·2*	..	91	..
1221*a*	Punta Tumbes	36 37	73 6	120	1002·7	1017·3	— 1·0	287·6	290·0	25th	280·9	279·0	1st, 30th	284·3	284·3	—0·6	94	+ 79
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1013·4	1018·4	+ 0·6	290·6	295·2	15th	283·1	280·0	3rd	286·9	*286·6*	—0·6	18	+ 7
1223	Santiago	33 27	70 42	520	956·2	1017·2	+ 0·8	291·5	299·0	30th	279·8	276·7	24th	285·7	*284·7*	—1·7	32	+ 19
1224	Cordoba	31 25	64 12	423	965·0	1014·0	+ 0·2	296·0	304·9	29th	282·9	277·4	10th	289·5	288·8	—1·6	48	— 12
	Bahia Blanca	38 45	62 15	25	1012·0	1015·1	— 0·7	289·7	295·0	21st	279·9	275·0	14th	284·8	284·3	—3·6	139	+ 80
1225	Buenos Ayres (Chacarita)	34 36	58 22	25	1013·7	1016·6	+ 0·2	291·0	297·5	27th	281·5	276·6	25th	286·3	286·6	—1·9	70	— 18
1226	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1016·1	— 0·5	..	..	..	295·0	..	8th	..	*286·6*	—1·4	75	0
1226*a*	ϕPorto Alegre	30 2	W51 13	23·5	1012·0	1014·8	— 1·5	295·6	301·3	28th	286·0	281·3	31st	290·8	290·6	—0·6	66	— 7
1239	ϕCape Town	33 56	E 18 29	12·2	..	1016·4	— 1·0	294·9	304·7	5th	285·8	282·2	4th	290·3	289·3	+1·1	19	— 23
1240	Danger Point	34 37	19 18	27·7	1014·4	1017·7	..	292·1	298·0	27th	285·3	280·8	1st	288·7	..	+0·3	28	— 21
1241	Riversdale	34 6	21 16	‡1100	1004·8	1016·6	..	297·1	305·2	6th	284·4	277·4	1st	290·8	..	..	63	+ 23
1242	East London	33 2	27 55	44·8	..	1016·9	— 0·2	296·2	306·3	6th	288·2	281·9	5th	292·2	..	+1·6	37	— 31
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1010·7	1018·1	+ 1·2	292·9	300·3	12th	283·9	280·3	6th	288·4	*288·2*	—0·6	63	+ 7
1260	Katanning	33 42	117 35	310	979·4	1015·7	0·0	293·4	..	..	280·6	..	..	287·0	..	+0·1	12	— 28
1261	Coolgardie	30 57	121 10	423	966·7	1014·9	+ 0·1	298·9	307·9	26th	283·3	278·0	29th	291·1	*291·0*	+0·5	0	— 19
1262	Eucla	31 45	128 58	4·6	1015·3	1015·9	+ 0·7	294·8	312·4	27th	283·6	277·6	13th	289·2	288·7	—0·8	5	— 13
1263	Streaky Bay	32 48	134 13	13·1	1014·9	1016·3	+ 0·5	295·5	307·2	27th	284·3	279·4	8th, 14th	289·9	289·3	0·0	26	+ 2
1264	ϕAdelaide	34 56	138 35	42·7	1009·0	1013·1	— 1·6	291·7	301·8	29th	282·4	278·0	11th	287·1	*286·9*	—0·2	93	+ 26
1265	ϕMelbourne	37 49	144 58	35·1	1009·0	1013·1	— 1·6	291·7	301·8	29th	282·4	278·0	11th	287·1	*286·9*	—0·2	93	+ 26
1266	Bourke	30 13	145 58	110	1004·4	1017·5	— 0·6	302·4	*313·6*	22nd	285·7	279·1	3rd	294·1	..	—0·3	14	— 12
1267	ϕSydney	33 51	151 13	42·1	1008·4	1013·4	— 1·3	295·1	307·8	22nd	285·9	282·4	17th	290·5	*290·1*	—0·1	37	— 35
1268	ϕLord Howe Island	31 20	159 0	4·6	1015·0	1015·6	— 1·2	293·9	297·2	30th	287·3	280·9	22nd	290·6	..	—0·7	114	— 18
1271	Auckland	36 50	174 50	38·1	..	1012·9	+ 2·2	290·1	293·1	13th	284·2	281·1	19th	287·1	..	+0·1	95	+ 3
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		° ′ S.	° ′ E.															

Between Latitude 40° S. and 50° S.

OCTOBER—ZONE 13.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1008·0	..	..	..	..	..	..	..	..	..	..	71	+ 14
1321	Isla Guafo	43 34	74 45	140	1000·0	1017·0	— 1·2	284·5	292·5	2nd	279·9	277·2	28th	282·2	*281·8*	0·0	69	+ 13
1322	Punta Galera	40 1	73 44	40	1012·2	1017·1	— 1·7	286·1	292·0	1st	281·2	278·0	25th, 26th	283·7	*283·8*	+0·4	95	— 7
1323	Sarmiento	45 30	69 0	274	982·7	1015·6	+ 2·1	288·3	295·6	,,rd	277·0	272·6	10th	282·7	282·4	—2·1	35	+ 27
1324	Puerto Madryn	42 49	W64 58	14	1012·5	1013·9	— 0·8	287·8	298·0	7th	278·4	272·5	24th	283·1	283·2	—2·8	80	+ 61
1365	Launceston	41 27	E147 10	10·1	1008·4	1009·6	— 1·9	290·2	294·7	29th	281·2	275·1	24th	285·7	*284·9*	+0·6	67	— 1
1366	ϕHobart	42 53	147 20	53·9	1002·5	1009·1	— 1·0	289·0	300·6	21st	280·8	275·7	23rd	284·9	*284·1*	—0·4	91	+ 34
1370	Invercargill	46 25	168 21	3·7	..	..	..	288·2	293·6	15th	277·8	271·3	10th	283·0	..	—0·7	79	— 34
1371	Dunedin	45 52	170 31	91·4	..	1012·0	+ 2·9	287·9	296·3	22nd, 23rd	280·9	274·7	17th	284·4	..	+0·9	85	+ 8
1372	Christchurch	43 31	172 39	7·6	..	1011·7	+ 1·0	287·8	296·8	24th	280·2	276·1	18th	284·0	..	—0·7	44	+ 3
	Wellington	41 16	174 46	3·0	..	1012·8	+ 0·4	289·2	292·4	1st, 13th	282·3	276·2	19th	285·7	..	+0·3	97	— 7
		° ′ S.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114.
ϕ Change of normals, *see* pages 113 and 114.

OCTOBER—ZONE 14.

RÉSEAU MONDIAL

Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	1007·4	1014·2	+ 8·1	280·4	283·5	11th	277·1	273·5	27th	278·7	*278·6*	0·0	123	—
1422	Puerto de Punta Arenas	53 10	70 54	28	1010·0	1013·5	+ 8·3	283·0	289·0	18th	276·0	273·2	23rd	279·5	*279·8*	+0·2	0	—
1423	Punta Dungeness	52 24	68 26	5	1011·8	1012·4	+ 8·9	283·3	288·6	19th	275·1	272·5	14th	279·2	*278·0*	−1·8	7	—
1424	‡Año Nuevo	54 39	64 8	50	..	..	..	279·4	284·5	4th	275·0	271·0	7th, 23rd	277·2	*276·8*	−1·1	48	—
1425	Stanley, Falkland Is.	51 42	57 51	18	..	1012·2	..	279·6	285·8	2nd	273·6	270·2	19, 25, 29	276·6	..	..	26	—
1426	Cape Pembroke	51 41	57 42	21·3	1009·5	1012·1	+ 7·7	278·8	283·6	1st, 2nd	273·8	270·2	25th	276·3	276·6	−1·7	..	—
1429	S. Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	1007·8	1008·3	+ 7·5	277·1	284·6	6th	269·9	266·8	10th	273·5	*273·8*	−0·8	28	—

OCTOBER—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys.	60 44 S.	44 39 W.	7	1001·5	1002·4	+ 9·1	272·7	278·1	15th	266·4	252·5	1st, 3rd	269·5	269·9	+0·7	32	+ 4
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS—OCTOBER, 1923.

Date.	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).		Entebbe. 844. Direction and Force (Beaufort).		Malden Island. 905. Direction and Force (Beaufort).		Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
			9h.	9h.	17h.	7h.	21h.	9h.	20h.	9h.	8h.	20h.	9h.
1	SE	10·1	Calm 0	NE 1	WNW 1	NW 1	Calm 0	E 2	ENE 2	SE 2	NW 1	Calm 0	E 3
2	SSE	9·5	E 1	Calm 0	SW 1	NW 3	Calm 0	ENE 2	E 1	SE 1	NW 1	NW 1	E 3
3	SE	8·3	SE 4	Calm 0	SW 2	Calm 0	SE 1	EbyN 2	E 2	SE 2	NW 2	NNW 3	E 3
4	SE	6·6	SE 3	SE 2	Calm 0	W 2	NE 2	E 1	E 1	SE 2	WNW 4	W 3	NE 3
5	SE	5·0	SE 2	ENE 2	Calm 0	E 2	S 1	E 2	E 1	SE 2	NW 1	W 1	NE 3
6	SE	7·7	Calm 0	S 3	NE 1	SW 2	N 1	Calm 0	Calm 0	SE 2	NW 2	NNW 3	NE 3
7	SE	6·8	S 3	S 1	NE 1	SW 1	SE 2	Calm 0	EbyN 1	SE 2	WNW 4	W 3	NE 3
8	SE	7·3	S 1	S 1	ENE 2	WSW 2	E 1	Calm 0	EbyN 1	SE 2	NW 1	W 1	SSW 3
9	SSE	8·2	S 1	SSE 1	E 2	SW 2	Calm 0	Calm 0	EbyN 1	Calm 0	NE 3	NNE 3	ENE 3
10	SE	11·5	SSE 1	NE 1	SW 2	Calm 0	Calm 0	EbyN 1	EbyN 2	Calm 0	S 4	ESE 4	SSE 3
11	SE	10·1	SSE 1	NE 1	SW 2	E 1	S 2	Calm 0	EbyN 1	Calm 0	NE 4	NE 4	NE 3
12	SE	10·0	SSE 3	NE 1	SW 2	Calm 0	SW 1	EbyN 1	EbyN 1	Calm 0	E 3	Calm 0	NE 3
13	SSE	10·7	SW 3	ENE 2	SW 3	E 1	SW 2	EbyN 2	SE 2	Calm 0	ESE 3	Calm 0	NE 3
14	SE	11·3	SSE 2	Calm 0	NNE 1	W 1	SE 2	SE 2	NE 2	SE 1	N 1	Calm 0	SE 3
15	SSE	8·9	Calm 0	NNE 1	SW 2	NW 2	SE 2	NE 1	NE 2	SE 2	Calm 0	W 1	SE 3
16	ESE	6·3	SW 1	Calm 0	WSW 1	E 1	SE 2	NE 1	EbyN 1	..	W 3	W 2	NNE 3
17	SE	6·0	SE 1	Calm 0	SW 1	SE 2	Calm 0	EbyN 1	E 1	SE 1	SW 3	WNW 2	NE 3
18	SE	6·1	S 1	ENE 1	WSW 2	E 1	Calm 0	EbyS 2	E 1	SE 3	SW 4	NNW 3	SE 4
19	SE	5·3	SE 1	SSW 1	SW 2	NE 1	Calm 0	E 1	NE 1	SE 1	E 2	NE 1	SE 4
20	SE	5·5	Calm 0	NE 1	W 1	NW 2	Calm 0	NE 1	NE 1	SE 2	NE 1	NW 2	SE 4
21	SSE	8·2	Calm 0	E 2	SW 1	W 1	Calm 0	NE 1	EbyS 1	SE 2	NNW 2	NW 2	SE 4
22	SE	7·2	Calm 0	SW 1	SW 1	N 2	Calm 0	E 2	E 2	SE 2	NNW 1	Calm 0	E 4
23	SE	4·3	SW 1	N 1	SW 1	NW 2	Calm 0	E 2	EbyS 2	Calm 0	E 1	Calm 0	ENE 2
24	SE	2·7	SW 1	ESE 2	SSW 2	NW 2	Calm 0	EbyS 1	SE 1	Calm 0	E 1	E 1	E 5
25	Calm	3·7	S 1	ENE 2	SW 1	NW 2	Calm 0	E 2	NE 2	Calm 0	E 1	E 2	E 3
26	SE	3·7	NE 2	E 1	SW 2	NW 2	Calm 0	NE 1	NE 1	Calm 0	ENE 2	NE 2	SE 3
27	SSE	2·8	ENE 2	SSW 1	W 3	NW 2	Calm 0	NE 1	NNE 1	SE 1	N 2	E 3	E 3
28	SE	3·5	E 2	Calm 0	SSW 3	S 2	S 1	E 1	E 1	Calm 0	E 3	E 2	ESE 3
29	SE	6·1	SE 5	E 2	SW 1	NW 2	Calm 0	E 1	E 2	SE 2	E 2	E 1	NE 3
30	SE	7·8	ESE 4	NE 2	SW 2	E 2	Calm 0	E 3	E 2	SE 1	E 3	ENE 4	NE 2
31	SE	8·4	ESE 3	ENE 2	SW 2	N 2	Calm 0	EbyN 2	EbyN 2	Calm 0	NE 4	ENE 4	NE 4
Mean	..	7·1	1·6	1·2	1·6	1·5	0·7	1·5	1·4	1·0	2·3	1·8	2·9
§Resultant	140° (93)	..	150° (56)	200° (17)		355° (4)		80° (90)		135° (59)	30° (32)		90° (59)
§Normal	145° (92)	8·7	‖131° (72)	261° (15)		245° (33)		‖‖85° (83)		136° (83)	‖115° (38)		100° (64)

‖ Normal refers to ½(9+21). ‖‖ Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—OCTOBER 1923.

‡‡ *Kara Sea.*—In the beginning of the month there was still no ice east of Matotchkin Strait.

‡‡ *Spitsbergen.*—On the 4th and the 21st some few scattered pieces of ice were met with north of Horn Sound, otherwise the west coast was free of ice. In the fjords there was no ice, though generally it begins to form about the first of this month.

‡‡ *Iceland* was free of ice as is usual in this month.

‡‡ *Greenland Sea and Denmark Strait.*—At Bass Rock the polar and young ice was lying close inshore. North of Angmagsalik the ice was lying packed together along the coast, to the south the ice belt was 8 miles wide; usually the sea is ice free here this month. On the 12th Angmagsalik fjord was ice free.

‡‡ *N. Atlantic and Labrador.*—No icebergs were observed on the Newfoundland Bank, south of the 48th parallel, the normal being 4. In Belle Isle Strait a few icebergs were observed, some reaching to 130 miles to the east of Belle Isle.

‡‡ *Davis Strait and Baffin Bay.*—Early in the month there was no ice at Cape Farewell, but from the 20th "Storis" was encountered 60 miles south of Cape Farewell and Nanortalik, which is unusually early. The "Storis" was less heavy than usual, and in several places there were large openings inside the ice. At Arsuk no ice was observed, and along the whole west coast of Greenland to Upernivik only icebergs were met with.

‡‡ *Isforholdene i de arktiske Have, 1923 and 1924*, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, NOVEMBER 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF NOVEMBER 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **NOVEMBER—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	1014·2	..	259·7	269·7	1st, 3rd	253·7	243·0	30th	256·7	..	+1·4	13	+ 4
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125	Upernivik	72 47	56 7	19·2	1007·2	1009·6	+ 1·0	269·7	278·4	19th	265·1	259·2	14th	267·4	*267·3*	+4·4	14	− 13
133	Germaniahavn	74 30	18 45	5·5	1014·4	1015·1	..	262·3	269·0	16th, 18th	255·6	246·1	9th	258·9	*258·9*	..	41	..
135	Jan Mayen	70 59	W 8 18	23·1	1001·0	1003·9	..	..	277·0	16th	267·7	259·4	14th	..	*270·6*	..	24	..
139	ϕSpitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1010·5	1012·0	+ 4·7	..	274·2	15th	263·3	254·1	29th	..	265·1	+3·8	1	− 23
140	Björnöen	74 28	19 15	40·5	999·7	1004·8	..	..	275·6	16th	269·6	262·2	30th	..	*271·2*	..	19	..
141	Gjesvaer	71 6	25 22	6·5	1001·6	1002·4	− 1·4	..	276·8	2nd	269·7	263·0	23rd	..	*271·7*	0·0	26	− 46
142	Mehavn	71 1	27 47	4·6	1002·7	1003·8	− 0·1	..	276·1	6th	268·2	262·2	29th	..	*270·4*	−0·5	101	+ 22
143	Vardö	70 22	31 8	6·8	1003·1	1004·0	− 2·2	..	276·8	5th	270·2	264·6	30th	..	*272·1*	+1·2	58	− 4
147	Malye Karmakouly	72 23	52 43	14·8	1010·0	1011·9	+ 7·5	268·2	276·2	5th	262·9	246·4	28th	265·6	*265·8*	+3·6	14	+ 1
148	Waigatz	70 24	58 47	11·2	1011·5	1012·9	+ 2·9	267·8	276·3	6th	263·3	252·0	30th	265·6	*265·3*	..	25	..
153	Dickson	73 30	80 23	13	1015·1	1016·8	..	259·6	271·5	2nd, 8th	253·3	239·4	20th	256·4	..	..	11	..
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

Between Latitude 70° N. and 60° N. **NOVEMBER—ZONE 2.**

203	Nome	64 30	165 24	6·7	..	1001·7	− 4·6	268·9	275·2	1st	263·9	255·2	29th	266·4	*266·4*	+2·6	6	− 17
204	Candle	65 55	161 57	2·4	..	..	..	271·9	276·3	9th	256·8	245·2	25th, 30th	264·3	..	+6·2	..	..
205	Tanana	65 10	152 6	67·1	..	1005·1	− 4·6	262·1	269·7	1st, 3rd	255·5	233·6	30th	258·8	..	+3·9	3	− 15
206	Rampart	65 30	150 15	122	..	..	..	261·1	269·7	7th	255·2	228·6	30th	258·1	..	+3·5	14	0
207	Valdez	61 7	146 16	8·2	..	..	..	276·2	284·1	16th	270·2	261·9	30th	273·2	..	+3·3	203	+ 96
208	ϕEagle	64 46	141 12	254	..	1005·7	− 5·7	266·2	274·7	16th	257·8	230·2	30th	262·0	..	+5·1	19	+ 6
209	ϕDawson	64 4	139 29	324	966·7	1008·2	− 4·5	265·2	275·8	15th	259·1	236·3	30th	262·2	..	+5·8	17	− 10
210	Carcross	60 11	134 34	662	..	..	..	..	..	..	..	..	..	..	..	..	13	− 9
211	Fort Good Hope	66 25	128 53	65·2	1004·7	1013·5	..	259·6	269·1	3rd	252·7	231·3	30th	256·1	..	..	16	− 11
212	Fort Simpson	61 52	121 35	129	992·2	1009·0	− 5·3	267·6	281·3	4th, 10th	259·1	244·1	30th	263·3	..	+8·0	9	− 12
213	Hay River	60 51	115 20	161	990·6	1011·3	− 2·6	269·9	284·1	4th	261·2	245·2	25th	265·6	..	+6·9	3	− 15
225	Jacobshavn	69 13	51 2	12·6	1006·3	1007·9	+ 1·1	270·5	279·7	20th	263·6	253·1	15th	267·1	*267·2*	+3·1	14	− 3
226	Gorithaab	64 11	51 43	20·4	1003·4	1005·9	+ 2·8	273·0	284·2	19th	268·2	260·3	13th, 14th	270·6	*270·4*	+2·1	116	+ 68
227	Ivigtut	61 12	48 10	13·0	1008·0	1009·6	+ 6·6	274·7	287·8	19th	269·4	261·4	15th	272·1	*272·7*	+2·8	183	+ 71
229	Angmagsalik	65 37	37 33	31·7	1007·4	1011·5	+ 8·4	269·3	275·9	9th	261·9	254·0	13th, 14th	265·6	*265·3*	−2·4	64	− 22
231	Stykkisholm	65 5	22 46	25	1004·7	1007·9	+ 3·6	274·0	280·6	9th	269·3	261·7	14th	271·7	*271·5*	−2·0	46	− 18
232	Vestmanno	63 24	20 17	132	989·1	1005·6	+ 3·8	277·1	282·3	30th	270·6	261·5	15th	273·9	*272·5*	−2·7	85	− 50
233	Grimsey	66 33	18 1	22·0	1003·1	1005·8	+ 0·8	275·1	278·7	10th	269·2	261·8	14th	272·1	*271·1*	−1·9	16	− 11
234	Teigarhorn (Berufjord)	64 41	14 22	18·0	1001·6	1003·8	− 0·4	274·8	283·2	10th	269·4	263·0	15th	272·1	*272·0*	−1·9	35	− 75
235	ϕThorshavn	62 3	6 45	26·3	998·0	1003·3	− 4·5	277·1	282·0	11th	272·2	267·1	7th	274·7	*275·0*	−2·8	99	− 67
236	Lerwick	60 9	W 1 11	18·0	..	1001·0	− 5·9	279·4	284·1	12th	276·1	273·0	15th, 24th	277·7	*277·9*	−1·2	189	+ 81
237	Bergen (Met. Obs.)	60 24	E 5 19	44·4	995·0	1000·5	−10·4	277·8	283·3	12th	273·5	268·2	23rd	275·7	*275·8*	−1·3	235	+ 57
238	Aalesund	62 28	6 10	6·3	998·8	999·6	− 8·2	..	282·2	1st	273·9	268·6	22nd	..	*276·1*	−1·6	190	+ 56
239	Trondhjem	63 26	10 25	39·5	995·5	1000·4	− 9·4	275·1	281·5	1st	269·8	256·2	23rd	272·5	*272·6*	−1·0	65	− 11
240	Bodö	67 17	14 24	22·3	996·3	999·1	− 6·7	..	280·0	1st	271·0	265·5	21st	..	*273·1*	−0·8	100	− 4
241	Haparanda	65 50	24 9	9·2	1000·4	1001·6	− 7·8	271·1	278·0	2nd	266·1	253·0	28th	268·6	*269·1*	+0·9	54	+ 5
242a	ϕHelsingfors	60 10	24 57	11·7	1000·8	1002·3	−10·2	276·9	282·0	1st	273·3	267·3	25th	275·1	*275·4*	+2·3	134	+ 71
242b	Kuopio	62 54	27 40	90·3	990·4	1001·7	−11·5	274·1	279·5	13th	270·3	262·5	28th	272·2	*272·1*	+1·7	88	+ 40
243	Kola	68 53	33 1	6·7	1003·8	1004·7	− 2·9	270·9	276·7	3rd	265·2	253·7	20th	268·0	*268·0*	+1·5	24	− 1
244	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
245	Arkhangelsk	64 34	40 31	6·3	1005·8	1006·6	− 4·6	272·7	277·4	16th, 17th	268·5	254·9	20th	270·6	*270·4*	+3·1	54	+ 23
246	ϕMezen	65 50	44 16	14·9	1005·5	1007·4	− 1·8	269·7	276·5	6th	265·1	251·2	20th	267·4	*267·4*	+1·8	23	+ 3
247	Oust-Tsylma	65 25	52 18	? 68	1002·0	1010·8	− 0·2	267·5	276·0	6th	261·7	242·3	20th	264·6	*264·8*	+1·8	20	− 7
248	Tcherdyn	60 24	56 31	? 177	992·2	1014·7	− 2·7	272·4	279·0	18th	267·2	248·8	30th	269·8	*269·6*	+6·7	106	+ 54
249	Berezov	63 56	65 4	39·5	1014·4	1019·7	+ 6·5	261·6	274·5	8th	254·7	234·4	25th	258·2	*258·0*	−0·6	24	+ 3
250	Obdorsk	66 31	66 35	23·7	1014·7	1017·9	+ 6·4	259·0	273·5	9th	253·3	236·2	25th	256·2	*256·3*	−0·1	11	− 2
252	ϕSourgout	61 15	73 24	? 40	1013·6	1018·9	+ 3·4	..	275·2	3rd	255·0	229·2	25th	..	*258·7*	−0·5	39	+ 15
253	Doudinka	69 23	86 4	20·0	1016·2	1019·0	+ 5·2	..	270·9	7th	246·7	228·1	25th	..	*250·6*	−1·3	12	+ 3
254	Touroukhansk	65 47	87 57	45·0	1015·9	1022·2	+ 5·5	..	271·5	9th	247·1	224·6	26th	..	*251·0*	−1·1	15	− 5
261	Viliouisk	63 45	121 35	120	..	..	..	..	263·4	3rd	240·5	229·3	30th	..	*243·3*	−3·7	10	− 3
262	Jakoutsk	62 1	129 43	108	1008·8	1023·9	+ 3·0	..	264·2	5th	241·6	231·0	19th	..	*245·4*	0·0	11	0
263	Verkhoiansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		° N.	° E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*.
ϕ Change of normals *see* pages 105 and 106.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	277·5	280·8	1st	273·0	262·4	27th	275·3	..	..	133	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	995·6	— 7·6	276·0	278·6	4th, 19th	272·9	268·6	28th	274·4	..	+1·0	51	— 36
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	993·5	— 8·4	278·5	280·2	sev. dates.	272·7	268·6	17th	275·6	*275·4*	+0·7	99	— 74
304	Port Moller	55 56	160 30	5·5	..	..	..	279·0	280·8	12th	273·5	269·1	29th	276·3	..	..	53	..
305	Dillingham	59 0	158 28	24·4	..	..	..	276·6	280·2	3, 8, 17	267·6	260·2	29th	272·1	..	+3·4	9	— 36
306	Kodiak (Radio)	57 46	152 22	6·1	..	993·5	— 6·8	279·8	290·2	22nd	273·4	268·6	29th	276·6	*276·4*	+2·0	109	+ 40
										Sea Temp.							
307	55°—50° N. 150°—145° W.	††51 40	††147 39	§(21)	..	997·6	— 8·1	..	..	280·8|+1·7	..	..	..	..	280·2	+1·1	..	..
309	Sitka	57 3	135 19	27·4	..	1005·4	— 0·2	282·1	286·9	6th, 7th	276·1	269·7	19th	279·1	*279·0*	+2·4	355	+113
310	Prince Rupert	54 18	130 18	51·8	1005·4	1011·7	+ 2·8	283·6	291·9	6th	278·0	270·2	30th	280·8	*281·1*	+2·9	713	+370
311	Barkerville	53 2	121 35	1274	867·3	1015·7	+ 1·3	276·3	281·9	16th	268·6	260·8	30th	272·4	*272·1*	+2·9	85	— 2
312	Kamloops	50 41	120 29	385	976·5	1023·9	+ 3·6	278·7	287·6	3rd	273·7	268·6	21st	276·2	*276·4*	+1·4	13	— 11
313	Calgary	51 2	114 2	1045	893·5	1015·8	0·0	284·7	294·1	5th, 8th	268·0	256·3	21st	276·3	*275·2*	+5·7	11	— 6
314	Fort Chipewyan	58 42	111 10	218	982·9	1010·7	— 4·6	271·3	286·3	28th	261·3	245·2	23rd	266·3	*266·5*	+4·7	3	— 23
315	Prince Albert	53 10	105 38	442	960·2	1015·0	— 0·6	277·4	289·1	5th	265·8	252·4	26th	271·6	*270·8*	+5·4	6	— 18
316	Qu'Appelle	50 30	103 47	645	936·2	1014·5	— 2·4	279·1	291·3	8th	267·4	254·1	26th	273·3	*272·4*	+5·7	44	+ 21
317	Minnedosa	50 15	99 50	515	951·8	1015·0	— 2·6	278·7	288·6	5th, 8th	267·4	258·1	21st	273·1	*272·2*	+5·8	11	— 13
318	Berens River	52 18	97 23	216	..	..	..	277·3	286·3	11th	266·3	249·7	22nd	271·8	..	+5·4	27	— 6
318a	ϕPort Nelson	57 0	92 51	14·9	1010·3	1012·2	— 2·2	268·1	277·4	11th	258·2	241·3	20th	263·1	..	+2·0	..	..
319	Fort Hope	51 33	87 49	‡260	..	..	..	..	..	..	..	..	..	..	..	..	28	0
320	ϕMoose Factory	51 14	80 30	9·1	1012·4	1013·6	— 0·7	274·7	283·0	12th	266·4	251·3	22nd	270·6	..	+2·9	10	— 23
321	Fort George	53 50	79 5	97·5	..	..	..	272·9	278·0	2nd, 3rd	266·8	257·4	24th	269·8	*269·8*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	273·3	280·8	3, 4, 14	265·9	251·9	10th	269·6	..	+3·0	50	— 22
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	277·4	286·9	28th	268·3	260·8	21st	272·9	..	+2·8	112	+ 54
326	ϕBelle Isle	51 53	55 23	130	1000·0	..	..	275·2	283·0	6th	271·4	263·6	21st	273·3	*273·3*	+2·9	56	— 42
										Sea Temp.							
331	55°—50° N. 30°—25° W.	††51 56	††27 26	§(42–48)	..	1020·7	..	..	..	283·9|—0·4	..	..	..	..	283·0	..	..	..
333	53°—48° N. 20°—15° W.	††50 30	††17 19	§(45)	..	1016·9	..	..	..	284·9|—0·8	..	..	..	..	283·4	..	..	..
333a	62°—57° N. 20°—15° W.	††58 52	††17 15	§(26)	..	..	..	..	..	281·5|—0·8	..	..	..	..	279·1	..	..	— 11
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1010·0	— 2·6	281·2	285·8	3rd	276·4	270·2	25th	278·8	279·1	−2·6	127	— 1
335	Aberdeen	57 10	W 2 6	26·8	..	1003·3	— 6·3	279·1	288·0	11th	274·1	271·3	24th	276·6	276·6	−2·3	79	— 17
336	ϕGreenwich	51 28	0 0	46·3	..	1008·6	— 6·0	279·8	287·4	3rd	273·7	268·0	26th	276·8	276·8	−2·8	41	
337	Uccle	50 48	E 4 22	100	996·9	1009·2	— 5·7	279·8	286·8	1st	274·0	268·0	27th	276·9	276·3	−1·8	61	— 5
338	De Bilt	52 6	5 11	3·0	1007·7	1008·1	— 6·4	279·3	286·1	4th	273·2	264·6	30th	276·3	275·9	−2·0	85	+ 25
338a	Hamburg	53 33	9 58	40·3	1002·6	1007·6	— 7·2	278·6	284·5	14th	274·7	269·6	28th	276·7	*276·5*	−0·9	59	+ 4
339	†Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1004·6	1005·2	— 8·1	278·5	284·0	1st	273·9	265·7	24th, 25th	276·2	*276·3*	−0·1	72	+ 22
340	Potsdam	52 23	13 4	84·9	999·7	1010·2	— 5·3	279·5	288·4	13th	274·1	268·6	25th	276·8	276·4	−0·1	18	— 21
340a	Uppsala	59 51	17 38	24	999·5	1002·5	— 7·9	274·8	283·4	12th	268·8	254·3	23rd	271·8	272·2	−0·9	45	+ 2
341	Warsaw	52 13	21 3	89·9	1000·3	1011·5	— 7·3	279·5	288·5	13th	273·9	267·7	28th	276·7	276·6	..	75	..
342	Tartu (Ülikooli)	58 23	26 43	74·5	995·4	1004·6	— 8·4	277·4	283·0	14th	273·9	263·9	29th	275·6	275·6	+3·2	120	+ 79
343	Petrograd	59 56	30 16	4·8	1003·9	1004·5	— 8·4	277·3	281·3	14th	273·6	263·6	29th	275·4	*275·4*	+3·4	101	+ 65
344	Kiiv	50 27	30 30	183	993·4	1015·8	— 3·2	281·8	288·3	23rd	276·0	266·4	26th	278·9	*278·8*	+5·1	83	+ 40
344a	Moscow	55 50	37 33	167	993·5	1014·2	— 3·4	278·1	285·5	14th	273·3	264·1	30th	275·7	*275·6*	+5·4	50	+ 13
345	Saratov	51 33	45 57	122	1005·4	1020·7	— 1·2	277·9	284·7	15th	272·8	258·0	30th	275·4	*275·1*	+5·3	28	..
346	Kazan	55 47	49 8	79·9	1009·2	1019·2	0·0	277·2	282·2	8th	272·9	259·5	30th	275·0	*275·0*	+6·3	28	— 4
347	Orenburg	51 45	55 6	109	1009·9	1023·7	— 0·3	276·7	282·0	15th	270·9	258·2	30th	273·8	*273·5*	+5·1	50	+ 15
348	Perm	58 1	56 16	163	997·8	1018·3	— 0·3	274·8	279·7	22nd	271·1	253·6	30th	273·0	*272·8*	+7·0	55	+ 3
349	Sverdlovsk	56 50	60 38	281	983·8	1019·0	+ 1·4	274·1	280·4	17th	269·9	254·9	30th	272·0	*271·9*	+6·7	28	— 9
350	Tobolsk	58 12	68 14	108	1005·8	1019·8	+ 1·0	269·4	277·0	9th	263·6	244·6	21st	266·5	*266·1*	+2·6	51	+ 25
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	275·2	280·0	12th	269·8	263·9	29th	272·5	*272·4*	+6·6	14	— 5
352	Omsk	55 1	73 19	108	1007·1	1021·0	— 0·9	272·0	278·2	13th	265·9	247·2	21st	269·0	*268·7*	+4·6	16	— 2
353	Barnaoul	53 20	83 48	162	1003·9	1024·9	— 2·3	271·2	278·5	13th	263·4	239·4	22nd	267·3	*266·9*	+2·4	67	+ 38
354	Tomsk	56 30	84 58	122	1006·0	1022·1	— 1·5	..	277·1	1st	258·0	231·1	26th	..	*262·6*	+0·3	64	+ 17
355	ϕMinousinsk	53 43	91 48	248	993·4	1026·0	— 1·7	..	278·7	9th	258·4	235·5	27th	..	*262·7*	−1·7	30	+ 20
356	Eniseisk	58 27	92 10	77·6	1013·0	1023·5	+ 1·3	..	273·2	9th	251·6	229·8	26th	..	*255·9*	−4·6	26	— 5
357	Irkutsk	52 16	104 19	467	965·8	1027·1	— 0·9	263·1	274·7	9th	253·2	233·3	23rd	258·2	258·5	−3·8	9	— 8
358	Kirensk	57 47	108 7	278	989·2	1026·8	+ 2·4	..	272·7	10th	249·8	225·2	28th	..	*252·8*	−5·0	26	+ 1
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	969·8	1019·8	— 2·1	263·3	271·0	5th	249·7	241·1	26th	256·5	*256·5*	+1·1	10	— 3
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	998·3	1017·0	— 3·1	266·0	276·2	10th	255·7	246·3	25th	260·8	*260·6*	−0·9	13	+ 7
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	992·2	1003·2	— 2·2	272·0	277·5	4th	267·5	264·0	9th	269·8	*269·6*	−0·8	52	— 46
369		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1010·1	1018·7	+ 2·8	283·4	286·8	3rd	279·1	275·0	30th	281·2	280·8	+1·3	74	— 63
412	Portland, Oregon	45 32	122 41	46·6	1015·1	1020·6	+ 1·7	287·1	292·4	5th	279·4	273·0	18th	283·2	*282·7*	+2·5	105	— 59
413	Macleod	49 44	113 24	953	..	..	..	285·1	298·0	3rd	271·1	259·7	22nd	278·1	*278·0*	+5·7	18	+ 4
414	Helena	46 34	112 4	1253	875·8	1020·6	+ 1·5	282·0	286·3	24th	270·8	264·1	30th	276·4	*275·9*	+3·1	17	— 2
414a	Salt Lake City	40 46	111 54	1329	871·5	1021·7	+ 1·3	283·9	291·3	24th	274·6	269·7	28th	279·2	*279·3*	+1·5	27	— 8
415	Cheyenne	41 8	104 48	1856	814·4	1020·6	+ 1·8	281·6	288·0	18th	270·4	265·8	28th	276·0	*276·0*	+1·5	7	— 5
416	North Platte	41 8	100 45	860	919·7	1021·0	+ 1·4	286·5	294·7	24th	271·2	265·2	29th	278·8	*277·7*	+3·5	11	— 1
416a	Bismarck	46 47	100 38	510	955·9	1017·9	— 0·5	283·2	290·2	2nd	270·4	259·7	27th	276·8	*276·5*	+6·0	7	— 10
417	Winnipeg	49 53	97 7	232	985·5	1014·4	— 3·0	278·6	290·8	5th	269·7	256·3	21st	274·1	*273·6*	+7·0	23	— 4
418	Duluth	46 47	92 6	345	973·8	1015·9	— 1·4	279·4	288·6	11th	270·8	264·1	8th	275·1	*274·3*	+2·0	16	— 23
419	Port Arthur	48 27	89 12	196	990·7	1015·1	— 1·1	277·4	284·1	1, 5, 11	270·8	261·9	24th	274·1	*273·9*	+4·2	17	— 20
420	Chicago	41 53	87 37	251	988·4	1018·9	+ 0·8	282·7	289·7	10th	276·4	272·4	22nd	279·6	*279·9*	+1·3	37	— 24
421	Toronto	43 40	79 24	116	1003·4	1017·9	+ 0·6	279·9	286·1	21st	273·8	268·1	19th	276·9	276·9	+1·1	84	+ 17
422	ϕNew York (Central Park)	40 47	73 58	47·4	1012·5	1018·4	+ 0·5	284·0	291·3	4th, 5th	270·7	271·3	20th	280·3	280·2	+0·4	81	+ 2
422a	ϕSt. John, N.B.	45 17	66 4	36·2	1012·8	1017·3	+ 2·6	280·6	287·6	3rd	273·6	263·3	20th	277·1	277·0	+1·5	116	+ 4
422b	S.W. Point, Anticosti	49 24	63 33	9·1	1015·9	1017·0	+ 5·1	276·6	281·6	7th	272·0	265·2	21st	274·3	*274·6*	+2·3	142	+ 73
423	Sable Island (Main Station)	43 57	60 6	7·6	1015·8	1016·7	+ 2·0	283·0	287·4	5, 8, 24	279·1	273·0	20th	281·1	*281·1*	+1·6	140	0
425	Port aux Basques	47 35	59 10	9·1	1017·2	1018·3	+ 6·1	279·7	284·1	26th	275·2	268·6	15th	277·4	*277·3*	+2·5	45	— 67
426	St. John's, Newfoundland	47 34	52 42	48·8	1013·4	1019·5	+ 7·7	281·3	290·2	7th	276·3	269·1	16th	278·8	*278·7*	+3·0	247	+ 94
										Sea Temp.							
430	50°—45°N. 35°—30°W.	††48 52	††32 28	§(22–26)	..	1024·0	..	..	..	286·7|—0·6	..	..	..	..	285·6	..	..	..
435	Madrid	40 24	3 41	657	936·2	1014·9	— 3·9	283·8	292·3	1st	277·0	269·6	22nd	280·4	*280·0*	−1·0	101	+ 38
436	Nantes	47 15	W 1 34	36·5	1006·6	1011·2	— 4·3	281·5	288·0	5th	275·4	270·5	22nd	278·5	278·4	−2·2	76	— 11
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1005·0	1011·5	— 4·9	280·4	288·2	1st	274·1	269·5	26th	277·3	277·2	−1·6	42	— 7
438	Marseille	43 18	5 23	75	..	1009·7	— 5·7	288·1	295·5	1st	279·8	270·7	9th	284·0	*283·6*	−0·1	186	+114
438a	Zürich	47 23	8 33	493	954·0	1013·5	— 5·2	279·8	286·8	17th	274·4	267·8	22nd	277·1	276·8	+0·3	117	+ 49
439	Rome	41 54	12 27	203	1007·4	1012·0	— 3·0	290·8	295·1	1st, 2nd	283·5	280·0	17th	287·2	*286·9*	+2·2	253	+141
440	Vienna	48 15	16 22	203	988·2	1013·0	— 5·2	280·4	287·3	2nd, 4th	276·0	270·1	21st	278·2	278·1	+1·1	35	— 10
440a	Budapest	47 31	19 2	130	997·5	1013·5	— 5·5	283·0	289·6	1st	277·1	272·7	24th	280·1	279·7	+2·7	139	+ 88
441	ϕSofia	42 42	23 20	550	952·0	1016·7	— 3·9	280·5	293·6	30th	278·7	272·5	25th	284·1	*283·8*	+6·3	6	— 42
442	Bucharest	44 25	26 6	82	1005·8	1015·8	— 4·4	290·4	295·0	7th	278·4	273·0	25th	284·4	283·4	+6·1	10	— 38
443	Odessa (Observatory)	46 26	30 46	42·8	1011·5	1016·7	— 4·0	287·6	293·1	10th	282·0	274·0	26th	284·8	*284·7*	+7·3	7	— 27
444	Kharkiv (University)	50 0	36 14	140	1002·2	1019·5	— 1·7	281·2	288·4	21st	275·2	264·4	27th	278·2	*278·3*	+4·9	26	— 12
444a	Novorossiisk	44 44	37 49	37·1	1016·0	1020·5	+ 0·8	290·2	295·0	23rd	281·7	275·1	29th	286·0	*285·6*	+4·4	21	— 49
445	ϕTiflis	41 43	44 48	404	975·5	1024·0	+ 1·4	287·7	292·4	13th	276·1	271·6	23rd	281·9	*281·5*	+1·5	4	— 29
446	Astrakhan	46 21	48 2	— 20	1026·0	1023·6	+ 0·5	282·6	287·8	17th	275·6	267·0	30th	279·1	*278·7*	+3·5	6	— 5
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1026·7	1023·9	+ 1·7	283·9	289·0	15th	277·4	270·6	30th	280·6	*280·4*	+2·6	15	+ 6
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1024·4	1023·8	+ 2·1	287·2	292·1	1st	281·5	278·1	9th	284·4	*284·2*	+0·8	13	0
449	Kasalinsk	45 46	62 7	66·7	1018·8	1027·2	+ 2·5	..	..	..	272·6	267·3	30th	..	*276·1*	+4·2	17	+ 6
450	Tashkent	41 20	69 18	478	968·4	1026·3	+ 1·5	286·0	296·5	2nd	274·3	270·8	27th	280·2	*279·3*	−0·7	32	— 1
451	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	927·2	1027·9	+ 0·2	280·9	291·0	3rd	272·3	267·3	9th	276·6	*275·9*	+2·7	51	+ 6
													15th					
461	ϕMoukden	41 48	123 23	43·8	1015·3	1020·9	— 3·7	276·2	285·8	11th	266·6	246·7	30th	271·4	271·0	−0·4	91	+ 64
462	Joshin	40 40	129 11	31·9	1013·1	1017·1	— 3·3	281·2	290·3	7th	272·1	263·0	25th	276·7	276·6	+0·2	40	— 12
463	Yuki	42 20	130 24	68·6	1009·0	1017·3	— 3·9	278·2	283·6	7th	269·7	257·4	30th	273·9	273·7	+0·1	26	— 5
464	Vladivostok	43 7	131 53	128	1001·0	1017·3	— 3·4	275·6	282·8	7th	268·3	256·1	30th	272·0	*271·5*	−0·7	60	+ 40
465	Ochiai	47 20	142 47	27·4	1006·1	1009·6	— 3·3	275·7	282·3	7th	267·7	260·9	30th	271·7	272·0	+1·3	98	+ 24
466	Nemuro	43 20	145 35	26·7	1008·5	1011·8	— 2·9	281·3	287·0	8th	273·5	267·4	30th	277·4	278·0	+0·7	66	+ 13
466a	ϕSyana	45 14	147 53	39·3	1005·5	1010·4	— 2·2	279·5	285·5	8th	273·1	268·9	30th	276·3	276·3	+0·3	135	+ 7
		N.	E.															

Between Latitude 40° N. and 30° N. NOVEMBER—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal.
		N.	W.														
508	35°—30° N. 145°—140° W.	††31 38	††142 11	§(27)	..	1019·3	— 1·4	..	..	Sea Temp. 293·0|+0·6	..	..	..	292·4	+1·1	..	..
511	San Francisco	37 48	122 26	47·2	1012·4	1018·3	— 1·0	293·1	298·6	15th	284·9	283·6	25th	289·0	*288·2*	+2·9	12	— 49
512	San Luis Obispo	35 18	120 39	61·3	1009·9	1017·3	— 1·2	297·9	303·6	5th	281·9	275·8	28th	289·9	*288·9*	+3·3	8	— 33
513	San Diego	32 43	117 10	26·5	1012·3	1015·2	— 1·1	295·8	301·9	4th	285·7	281·3	29th	290·8	290·1	+2·7	4	— 19
514	Modena	37 48	113 54	1670	836·0	1020·0	+ 0·5	284·9	291·3	24th	268·9	262·4	28th	276·9	*276·1*	+0·9	26	+ 12
515	Santa Fé	35 41	105 57	2138	788·4	1019·6	+ 0·5	282·5	287·4	24th	271·1	263·6	28th	276·8	276·4	+0·3	21	+ 2
516	Denver	39 45	105 0	1613	839·4	1020·3	+ 1·8	284·7	294·1	17th	272·1	264·7	28th	278·4	*278·6*	+1·4	6	— 9
517	Abilene	32 23	99 40	530	957·9	1020·0	+ 0·6	289·6	296·9	25th	278·9	273·0	29th	284·2	*283·5*	−0·7	53	+ 18
518	Saint Louis	38 38	90 12	173	998·1	1019·3	— 0·4	285·8	294·1	10th	277·8	271·9	27th	281·8	*281·6*	+1·4	48	— 25
519	Mobile	30 41	88 2	17·4	1017·7	1019·6	— 0·1	292·2	298·0	23rd	281·8	276·9	10th	287·0	*286·5*	−0·7	110	+ 16
520	Nashville	36 10	86 47	166	1000·2	1020·3	— 0·5	287·4	295·2	11th	277·3	270·8	10th	282·4	*282·7*	0·0	73	— 17
521	Charleston	32 47	79 56	14·6	1017·3	1018·9	— 1·1	290·0	298·0	5th	281·5	275·2	10th	285·8	*286·0*	−1·5	45	— 16
522	Washington	38 54	77 3	34·1	1015·1	1019·3	— 0·3	284·4	290·8	22nd	276·1	270·8	10th	280·3	*280·2*	−0·2	52	— 11
523	Bermuda	32 17	64 46	46·0	1008·4	1013·8	— 3·7	295·7	299·1	1st	289·3	286·9	18th, 19th	292·5	*292·3*	−1·1	135	+ 11
524	Santa Cruz (Flores)	39 27	31 9	40	1021·2	1026·2	+ 6·1	291·7	295·3	14th	288·0	282·7	23rd	289·8	*290·0*	−0·1	95	— 71
530	ϕHorta	38 32	28 38	65	1016·9	1024·7	+ 4·4	291·3	294·5	17th	287·7	283·6	23rd	289·5	289·3	−0·7	43	— 76
531	Ponta Delgada	37 44	25 40	22	1020·5	1023·1	+ 3·4	291·0	292·9	19th	287·7	284·0	24th	289·3	289·3	−0·4	..	..
532	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	..	..
532a	Madeira (Funchal)	32 38	16 55	25	‡1016·5	‡1019·5	+ 0·6	294·2	297·2	2nd	288·8	285·0	28th	291·5	*291·5*	+0·5	74	— 71
533	Lisbon	38 43	9 9	95	1004·0	1015·5	— 2·4	288·4	295·5	1st	283·6	280·5	21st	286·0	285·8	−0·8	83	— 36
535	Melilla	35 17	2 59	40	1011·0	1015·7	— 2·6	292·4	298·6	26th, 27th	284·0	280·2	23rd	288·2	*290·0*	−2·4	98	— 11
536a	Gibraltar	36 6	5 21	16·2	..	1015·1	— 3·0	290·7	295·2	6th	284·2	280·8	11th, 22nd	287·4	*287·4*	−1 4	201	+135
536b	Colomb-Béchar	31 36	2 4	769	927·8	1015·9	..	292·5	298·1	27th	281·5	277·5	23rd	287·0	*286·0*	..	217	+ 55
		N.	W.														38	..
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" page 108.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

NOVEMBER—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1008·5	1011·3	— 5·9	290·1	294·2	2nd	283·1	278·0	23rd	286·6	..	−1·1	85	+ 29
538	Algiers (Bouzaréah)	36 47	3 2	344	972·7	1013·1	— 3·8	290·1	298·2	28th	284·3	278·5	22nd	287·2	*287·2*	+0·4	74	− 31
539	ϕTunis	36 48	10 10	21	1011·1	1013·6	..	294·5	301·4	28th	285·0	279·0	25th	289·7	*289·5*	+1·6	43	0
539*a*	Malta	35 53	14 30	56·4	..	1015·7	— 0·2	294·2	298·0	4th	289·8	286·9	9th, 24th	292·0	*291·2*	+1·3	95	+ 4
540	Riposto	37 41	15 14	14·2	..	1016·3	— 0·7	293·0	295·6	22nd	286·7	284·6	25th	289·9	*289·6*	+1·0	35	− 03
541	Athens	37 58	23 43	107	1005·0	1017·6	+ 0·4	294·4	297·2	18th	287·2	284·3	3rd	290·8	290·9	+3·9	20	− 46
542	ϕAlexandria	31 12	29 53	32·0	1013·9	1017·6	+ 0·3	299·8	303·6	9th	291·2	286·8	19th	295·5	*294·8*	+2·0	0	− 34
543	Nicosia (P.W.D.)	35 9	33 22	159	999·4	1018·0	+ 1·5	298·1	302·4	12th	283·6	279·7	sev. dates	290·8	..	+1·9	34	− 17
544	Beirut	33 54	35 28	33·7	..	1017·0	— 0·1	296·2	298·2	11th	290·7	286·5	2nd	293·5	*293·4*	+1·3	27	− 108
545	Hinaidi	33 17	44 29	32·3	..	1019·2	+ 0·5	298·2	301·3	11th	280·6	275·7	30th	289·4	*288·8*	..	1	..
546	Lenkoran	38 46	48 52	— 20·0	1025·5	1023·1	+ 1·3	..	289·1	12th	280·4	277·0	22nd	..	*284·2*	+0·2	29	− 125
547	Tehran	35 41	51 25	1220	..	..	..	288·8	293·3	1st	277·8	275·3	21st	283·3	*283·0*	−1·2	7	− 15
548	Meshed	36 16	59 35	946	886·3	..	..	288·3	298·2	2nd	271·5	266·9	28th, 29th	279·9	..	−1·4	4	− 11
549	Seistan	31 0	61 30	610	..	..	..	292·9	301·6	5th	277·1	270·9	30th	285·0	..	..	0	− 2
550	Quetta	30 11	67 3	1677	837·2	..	— 0·2	289·7	300·1	5th	270·6	266·1	30th	280·2	*279·9*	−2·2	0	− 8
551	Peshawar	34 2	71 37	339	977·8	1018·5	— 0·7	298·2	304·7	3rd	280·3	276·6	29th	289·2	*288·1*	−0·3	0	+ 2
551*a*	Lahore	31 34	74 20	214	990·8	1016·5	— 0·5	300·2	304·7	5th	281·8	278·9	30th	291·0	*289·9*	−0·4	0	+ 0
552	Simla	31 7	77 8	2204	783·3	..	— 0·5	286·4	290·9	10th	279·6	274·9	30th	283·0	*282·7*	−0·6	19	+ 1
552*a*	Leh	34 10	77 42	3503	668·3	..	— 0·6	281·1	285·3	6th, 7th	266·7	262·6	25th	273·9	*272·8*	−0·3	0	..
559	Hankow	30 35	114 17	37·0	1018·6	1023·1	— 2·2	290·3	294·2	3rd	281·6	276·3	30th	285·9	*285·9*	+1·0	23	− 31
560	ϕTientsin	39 10	117 10	5·0	1021·4	1022·0	— 3·7	281·7	288·1	22nd	272·7	263·0	30th	277·2	*277·1*	−0·7	4	− 9
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1021·6	— 2·1	290·8	296·8	5th	281·2	273·1	25th	286·0	284·9	+0·8	65	+ 14
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1012·6	1021·0	— 1·9	283·4	290·2	6th	274·5	262·7	30th	278·9	278·5	−0·8	47	+ 57
562*a*	Nagasaki	32 44	129 52	133	1003·3	1019·3	— 1·5	289·2	294·9	1st	281·8	276·7	30th	285·5	285·3	−0·3	142	+ 49
563	Kyoto	35 1	135 44	42·9	1013·0	1018·2	— 1·2	289·7	299·9	1st	278·7	272·6	27th	284·2	283·7	+1·0	125	+ 31
564	Tokyo	35 41	139 46	5·8	1015·5	1016·2	— 2·1	289·7	300·3	1st	280·7	275·7	22nd	285·2	285·0	+1·7	138	+ 82
565	Kanayama	37 53	140 46	24·6	1013·0	1016·0	— 2·3	287·6	298·1	2nd	277·7	271·3	28th	282·7	282·1	+1·4	145	+ 96
566	Miyako	39 38	141 59	30·4	1011·3	1015·0	— 2·3	287·5	293·1	13th	275·6	270·8	17th	281·5	280·9	+0·7	178	
		N.	E.															

NOVEMBER—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1017·6	— 1·3	297·9	300·8	7th	290·0	285·2	15th	293·9	*293·4*	..	44	..
605	Honolulu	21 19	157 52	11·6	1014·4	1015·7	— 1·0	299·6	300·8	..	294·8	291·9	..	297·2	*297·0*	+0·6	10	− 97
614	La Paz	24 10	110 20	12	1011·5	1012·9	..	299·2	301·0	1, 10, 11	293·6	286·4	30th	296·4	..	..	98	+ 19
615	Chihuahua	28 38	106 4	1423	860·5	1017·2	..	288·9	295·0	24th	280·2	272·0	29th	284·5	*285·3*	−1·3	36	+ 25
616	ϕLeon	21 7	101 41	1809	823·9	1015·5	+ 1·2	297·2	301·0	3rd	282·0	279·0	27th	289·6	*288·8*	−0·2	37	+ 11
616*a*	ϕMonterry	25 40	100 18	528	957·6	1018·8	+ 1·5	291·5	301·3	25th	285·5	280·0	29th	288·5	*288·0*	−2·6	65	+ 11
617	Tulancingo	20 5	98 22	2181	790·7	..	..	293·2	297·2	2nd	280·4	274·0	23rd	286·8	*285·7*	−0·3	7	+ 10
618	Galveston	29 18	94 50	16·5	1018·1	1020·0	+ 0·6	291·3	296·3	23rd	285·8	279·1	29th	288·6	*288·5*	−1·7	104	+ 31
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1020·0	+ 0·7	293·1	297·4	22nd	283·9	279·7	30th	288·5	*287·9*	−1·2	125	..
619	Merida, Yuc.	20 58	89 38	22	1013·7	1016·3	0·0	300·6	304·2	29th	292·7	290·0	sev. dates	296·7	*295·7*	−0·7	28	− 50
620	Havana	23 8	82 21	24·3	..	1017·1	+ 0·8	299·4	303·4	29th	292·6	287·2	15th, 19th	296·0	*295·8*	−0·8	26	− 30
620*a*	Key West	24 33	81 48	6·7	1016·6	1017·3	+ 0·4	297·4	301·3	27th	292·7	286·3	18th	295·0	*294·4*	−1·4	19	− 46
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1017·7	+ 1·0	299·1	..	..	295·8	..	..	297·4	*297·3*	0·0	26	..
622	Watling Island	24 6	74 26	33·5	1013·1	1017·0	+ 1·9	..	300	5, 27, 30	..	291	16th	..	*296·9*	..	..	..
633	Izaña	28 19	16 30	2367	767·3	..	..	282·1	288·0	19th	274·9	270·4	13th	*278·5*	*278·0*	−0·7	87	+ 26
634	La Laguna	28 28	W16 20	547	953·5	1016·8	— 0·7	291·5	294·8	1st	285·9	282·3	19th	288·7	*288·2*	+0·1	113	..
641	Siwa	29 12	E 25 29	— 23	1019·8	1017·0	..	300·3	308·0	11th	..	..	..	..	..	..	0	..
642																		+ 3
643	Cairo (Helwan)	29 52	31 20	116	1003·1	1016·4	— 0·5	299·1	307·2	10th	287·7	284·6	28th	293·4	*293·1*	+0·8	5	..
643*a*	Aswan	24 2	32 53	99·6	1002·4	1013·8	— 0·5	304·2	311·0	10th	280·3	285·0	22nd, 23rd	296·8	*296·0*	+0·9	..	..
644	Tor	28 14	33 37	1·9	1014·6	1014·8	— 0·2	299·4	302·0	12th	287·6	283·8	16th	293·5	*293·2*	+0·4	12	+ 55
647	Bushire	28 59	50 53	4·3	1017·4	1017·9	+ 1·6	296·7	300·4	1st	288·8	285·8	30th	292·7	*292·4*	−1·5	91	+ 0
648	Jask	25 44	57 47	4·0	1017·6	1018·0	+ 1·9	301·3	304·2	5th	291·4	288·4	28th	296·3	*296·0*	−1·2	15	..
649	Karachi	24 53	66 57	4·0	1015·4	1015·9	— 0·1	302·0	305·0	2nd	290·5	285·8	30th	296·3	*296·0*	−0·9	0	− 1
650	Jacobabad	28 17	68 29	56·7	1009·8	1016·5	+ 0·2	302·6	307·2	4th	283·3	278·4	29th	292·9	*292·2*	−1·0	0	− 4
651	Jaipur	26 56	75 52	436	966·7	1016·9	— 0·3	302·3	306·1	6th	284·7	281·7	16th	293·5	*292·5*	−1·0	0	− 8
652	Nagpur	21 8	79 5	310	980·0	1015·5	— 0·2	303·0	305·3	8th	288·3	285·7	13th	295·7	*295·4*	0·0	0	− 15
653	Allahabad	25 25	81 51	94·2	1005·5	1016·0	+ 0·3	302·4	304·7	7th	286·3	282·1	24th	294·4	*293·5*	+0·6	1	− 20
653*a*	Darjeeling	27 3	88 18	2265	778·2	..	— 0·5	286·3	287·9	3rd, 7th	279·3	276·9	27th	282·8	*282·5*	+0·4	0	+ 1
654	Calcutta	22 36	88 23	6·4	1013·4	1014·2	— 0·8	301·4	304·4	2nd	291·5	284·9	26th	296·5	*296·1*	+0·7	18	..
655	Gauhati	26 8	91 41	59·7	1007·8	1015·0	— 1·7	301·6	303·4	3rd	288·9	285·0	29th	295·3	*294·6*	+0·5	11	− 77
655*m*	Cherrapunji	25 15	91 42	1313	870·6	..	— 0·7	293·1	296·2	15th	286·2	281·7	26th	289·7	*289·0*	+0·6	5	− 115
655*a*	Akyab	20 11	92 56	6·1	1011·8	1012·5	— 1·0	302·4	304·2	2nd, 3rd	294·7	290·3	28th	298·5	*298·1*	+0·1	27	+ 50
656	Mandalay	21 59	96 0	76·2	1004·7	1013·4	— 1·2	304·6	307·9	3rd	294·0	289·6	30th	299·3	*298·7*	+1·0	91	+ 7
656*a*	Tengyueh	25 2	98 33	1626	837·1	1012·6	+ 0·2	292·8	295·8	13th	280·1	275·2	30th	286·4	*285·8*	+0·5	51	+ 72
657	ϕPhu Lien	20 48	106 38	116	1001·6	1015·1	— 2·0	299·8	304·5	7th	293·3	289·7	13th	296·6	295·8	+1·8	137	+ 140
658	ϕMoncay	21 31	107 51	9·0	1014·7	1015·7	— 1·7	299·1	304·4	7th	291·8	288·9	13th, 14th	295·4	*295·5*	+1·5	228	+ 53
659	ϕHongkong	22 18	114 10	33·2	..	1016·0	— 1·5	297·2	301·4	19th	293·2	288·7	30th	295·2	295·0	+1·3	10	..
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1016·6	1017·7	— 0·9	298·1	304·2	6th	289·3	283·3	13th	293·7	293·2	+0·4	12	− 66
661*a*	Basco	20 28	121 59	18·7	..	1011·6	— 1·1	299·2	303·4	1st	295·6	293·5	20th, 30th	297·4	*297·4*	−0·2	228	− 128
662	ϕNaha	26 13	127 41	10·5	1015·5	1016·7	— 0·9	297·3	302·8	1st	290·8	285·8	15th	294·1	294·1	+0·4	91	− 40
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1014·9	1015·4	— 0·7	299·2	302·3	2nd	294·8	290·5	27th	297·0	296·8	+0·9	125	− 55
		N.	E.															

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109. ϕ Change of normals *see* pages 109 and 110.

NOVEMBER—ZONE 7.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	956·6	1012·4	..	304·5	307·5	11th	291·8	289·4	19th	298·1	*296·3*	+0·8	3	..
716	Morelia	19 42	101 7	1923	811·3	1013·8	..	293 6	298·0	3rd	283·4	280·0	25th	288·5	*287·7*	0·0	29	..
717	Mexico, Tacubaya	19 24	99 12	2309	775·5	..	— 0·6	294·4	298·8	2nd	279·7	276·4	23rd	287·1	286·3	0·0	29	+ 14
718	ϕSalina Cruz	16 12	95 12	56	1005·3	1011·7	— 1·8	302·1	304·5	4th	296·1	293·2	30th	299·1	*299·0*	+0·1	4	− 23
719	ϕSan Salvador	13 42	89 12	682	937·2	1013·1	+ 0·3	304·0	306·0	30th	288·5	284·5	14th 24th	296·3	*295·1*	−0·4	0	− 38
720	Belize	17 29	88 12	5·2	1013·9	1014·5	— 0·6	301·6	304·4	4th	293·7	289·4	16th	297·7	*297·2*	−0·7	77	− 134
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1012·7	+ 0·4	302·9	305·8	29th	294·7	291·9	13th	298·8	*298·6*	−0·2	14	− 95
722	Port au Prince	18 33	72 20	37·4	1009·2	1013·5	+ 0·4	303·5	306·7	29th	294·4	293·0	12th	299·0	*298·3*	−0·3	171	+ 84
723	Caracas	10 30	66 56	1042	898·7	1013·3	+ 0·9	298·9	301·0	17th	287·5	284·5	7th	293·2	*291·6*	−1·0	58	− 27
724	Montserrat	16 41	62 9	36·6	1008·8	1012·9	— 0·4	302·5	304·7	5th	294·7	293·0	6th	298·6	*298·1*	−0·5	43	− 117
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡994·0	‡1011·8	+ 0·6	302·6	304·1	1st, 2nd	296·7	295·8	sev. dates	299·7	*299·1*	+0·4	149	− 60
725	Barbados	13 8	59 36	55·2	..	1011·8	— 0·4	302·1	303·4	2nd	..	..	..	..	*298·4*	+0·3	88	− 77
731	São Vicente, C. Verde Is.	16 54	25 4	11	1012·6	1013·8	+ 0·1	299·5	301·0	27th	292·9	287·0	16th	296·2	*297·2*	−0·4	9	+ 2
732	San Tiago, C. Verde Is.	14 54	23 31	34	1009·1	1013·0	— 1·2	300·6	303·5	26th	296·6	294·8	22nd, 23rd	298·6	*298·6*	+0·2	48	+ 36
733	Bathurst	13 27	16 34	1·8	1013·5	1013·7	+ 0·4	300·3	304·7	sev. dates	295·9	293·0	21, 24, 27	298·1	*298·3*	−1·1	0	− 5
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	307·3	309·7	29th	293·8	291·3	19, 28, 29	300·0	..	−0·6	44	+ 40
735	Niénébalé	12 57	7 26	300	..	..	..	307·7	309·6	13, 21, 25	290·0	281·4	30th	298·9	..	..	0	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	..	..	..	..	..	..	..	..	..	..	..
737	ϕSokoto	13 2	E 5 14	353	..	..	..	309·6	311·3	sev. dates	288·8	286·9	16th	299·2	*298·7*	−0·9	0	0
738	Kaduna Capital	10 32	7 25	637	944·9	1015·3	+ 2·3	305·5	307·4	17th, 25th	..	..	..	..	‡*298·5*	+0·2	0	− 4
739	Hadeija	12 40	10 5	?	..	..	..	307·7	310·2	12th	288·1	285·8	7th	297·9	*297·4*	−0·3	0	0
740	ϕMaiduguri	11 47	13 11	361	..	..	..	308·3	310·8	13, 15, 24	289·9	286·3	30th	299·1	*298·6*	−0·6	0	0
741	El Fasher	13 32	25 18	730	..	..	..	305·8	309·2	9th	286·1	280·9	25th	296·0	*295·3*	..	0	..
743	El Obeid	13 11	30 14	569	947·2	1010·6	+ 0·3	306·0	309·3	8th	289·3	284·7	2nd	297·6	*297·7*	+0·2	0	0
743*a*	ϕKhartoum	15 37	32 33	390	966·6	1010·3	+ 0·1	307·0	311·2	11th	292·7	287·1	2nd	299·9	*299·6*	−1·2	0	0
744	Port Sudan	19 37	37 13	5·5	1011·6	1012·3	— 0·3	303·7	305·2	26th	296·8	293·6	27th	300·2	*299·8*	−0·1	130	+ 88
745	Berbera, Somaliland	10 22	45 2	9·5	1013·6	1014·6	— 0·2	305·4	308·6	22nd	295·2	293·0	24th	300·3	*300·7*	+0·5	0	− 5
746	Aden	12 45	45 3	28·7	1012·3	1015·6	+ 0·5	302·7	305·1	10th	296·4	293·9	18th	299·6	*299·0*	+0·1	0	− 2
751	Bombay	18 54	72 49	11·3	1012·3	1013·6	— 0·1	303·2	306·3	3rd	295·4	292·6	17th	299·3	298·3	−0·7	0	− 10
752	Kodaikanal	10 14	77 28	2343	771·4	..	0·0	290·7	293·9	20th	282·4	280·6	25th	286·6	*285·9*	+0·8	139	− 68
752*a*	Bangalore	12 59	77 38	921	911·9	1012·7	0·0	302·4	304·3	20th	289·9	286·2	26th	296·2	*295·7*	+1·8	0	− 74
753	Madras	13 4	80 14	6·7	1011·8	1012·6	— 0·3	303·2	306·3	18th	295·5	292·0	14th, 25th	299·3	*298·8*	+0·3	92	−270
754	Vizagapatam	17 42	83 19	11·6	1011·4	1012·8	— 1·3	301·8	304·9	2nd, 7th	295·4	290·8	26th	298·6	*298·2*	+0·1	531	+436
755	Port Blair	11 40	92 40	18·0	1008·6	1010·7	— 1·1	302·7	303·9	4, 5, 20	298·0	297·1	15th, 21st	300·3	*299·9*	−0·3	197	− 44
756	Rangoon	16 46	95 48	5·5	1012·0	1012·6	— 0·8	305·0	306·3	2nd, 11th	297·4	296·1	30th	301·2	*300·3*	+1·5	132	+ 61
757	Saigon (Cap St. Jacques)	10 20	107 5	180	989·4	1010·0	+ 0·6	300·2	303·8	1st	296·2	295·0	17th, 18th	298·2	*297·8*	−0·2	88	− 8
759	Nhatrang	12 15	109 12	3·6	1010·4	1010·8	— 0·4	301·8	304·7	5th	295·6	294·1	19th	298·7	*298·3*	+0·2	729	+316
760	Bolinao	16 23	119 53	7·1	..	1006·5	— 2·5	303·7	305·8	6th	295·1	290·9	16th	299·4	*299·5*	−0·4	110	+ 64
761	Vigan	17 34	120 23	12·2	..	1008·1	— 2·1	304·5	308·3	17th	296·5	293·6	28th, 30th	300·5	300·0	+0·2	79	+ 45
761*a*	Manila	14 35	120 59	14·2	..	1008·7	— 1·1	303·5	307·0	5th	295·5	292·9	27th	299·5	298·5	−0·3	596	+463
762	ϕOrmoc	11 0	124 36	5·6	..	1007·2	— 0·8	304·7	307·2	30th	295·1	292·5	29th	299·9	*299·0*	+0·3	367	+122
765	Guam, Ladrone Is.	13 24	144 38	18·6	..	1007·2	— 0·7	302·9	304·6	13th	297·8	295·4	15th	300·3	*300·0*	0·0	151	− 33
		N.	E.															

Between Latitude 10° N. and 0°.

NOVEMBER—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
805	Fanning Island	3 54	159 23	5·3	1009·1	1009·8	..	306·1	308·3	13th	298·4	296·9	16th	302·2	*301·7*	+0·9	84	+ 5
821	Colon	9 23	79 23	11·0	..	1010·2	— 0·6	302·1	304·1	27th	297·5	295·2	26th	299·8	*299·4*	+0·4	563	+ 37
822	Bogota	4 36	74 5	2645	‡743·8	..	..	292·2	295·1	24th	281·9	279·5	20th, 21st	287·1	*286·6*	..	58	− 59
822*a*	Merida, Venez.	8 36	71 9	1641	‡840·4	..	— 0·6	297·2	299·5	7th	287·7	286·0	21st	292·5	*291·7*	+0·5	91	−112
823	Ciudad Bolivar	8 9	63 33	38	1005·5	1009·8	..	305·4	306·8	11th, 15th	296·9	295·8	20th	301·2	*300·6*	..	51	− 36
826	El Peru, Guayanavieja	7 19	61 49	220	984·5	1009·4	+ 0·5	303·6	305·2	18th	293·3	291·7	8th	298·4	*297·7*	−0·1	51	− 32
826*a*	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1010·8	— 0·3	303·7	304·9	16th	297·1	295·2	6th	300·4	*299·9*	−0·1	131	− 38
826*a*	Paramaribo	5 49	55 9	3·7	‡1012·3	‡1012·7	+ 1·1	305·0	306·6	5th	294·3	292·2	27th	299·7	*300·1*	+1·3	116	− 6
831	Cayenne	4 56	52 21	6	..	..	..	305·5	309·0	22nd	294·9	292·0	9th	300·2	*300·0*	+1·0	87	− 30
831	10°—5° N. 30°—25° W.	†† 7 42	††27 30	§(99-112)	..	1012·6	+ 1·1	..	..	Sea Temp. 300·1	+0·3	..	..	..	..	..	..	..
834	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	..	299·4	0·0	..	..
834	Freetown, Sierra Leone	8 29	13 9	68·3	1003·8	1011·7	+ 0·8	304·1	305·8	26th	296·3	294·7	7, 15, 26	300·2	*299·1*	−0·1	122	− 8
835	Assuantsi	5 18	1 15	101	..	..	..	303·2	304·7	30th	293·8	290·2	12th	298·5	*297·9*	..	135	+ 45
837	Accra	5 33	W 0 12	27·0	1007·6	1010·7	..	303·6	305·2	27th, 28th	295·9	294·1	1st	299·7	*299·2*	+0·1	7	− 27
838	Lagos	6 27	E 3 24	4·6	1009·2	1009·8	— 0·3	304·3	305·4	29th	297·8	294·9	1st	301·1	*300·4*	+0·5	69	+ 1
839	Zungeru	9 48	6 10	130	..	..	..	308·1	309·7	26th	291·6	288·6	20th	299·8	*299·3*	+0·3	0	− 4
839	ϕYola	9 12	12 30	259	..	..	..	308·3	310·2	13th, 17th	..	..	..	..	‡*300·2*	−0·1	2	− 2
840	Wau	7 42	28 3	440	..	..	..	..	..	..	293·3	290·0	5th	..	..	..	23	+ 6
843	Malakal (Kodok)	9 35	31 37	394	965·1	1009·2	+ 0·3	?308·4	?310·7	20th	291·6	287·0	3rd	?300·0	*?298·9*	−0·2	0	− 8
843*a*	Mongalla	5 11	31 47	439	958·7	1007·5	— 0·5	307·6	311·1	28th	293·0	291·2	24th	300·3	*299·0*	−0·1	23	− 23
844	ϕEntebbe	0 5	32 29	1171	883·3	1009·5	— 0·2	299·2	302·4	23rd	289·8	288·6	2, 14, 22	294·5

NOVEMBER—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1008·6	1009·6	− 0·2	303·5	304·1	27th, 28th	297·8	296·3	15th	300·7	*300·0*	−0·2	21	+ 2
924	ϕManaos	3 8	60 1	43·8	..	..	..	306·6	309·8	17th	296·7	294·2	29th	301·6	..	..	171	+ 29
926	Taperinha	2 30	54 20	20·0	1007·6	1010·0	+ 0·2	305·4	307·4	7th, 16th	295·4	293·9	4th	300·4	*299·4*	+0·1	161	+100
927	ϕTuryassu	1 43	45 26	9·1	1008·6	1009·8	− 0·5	306·0	307·8	15th	296·0	293·4	28th	301·0	*300·2*	+0·2	10	− 5
928	ϕBarra do Corda	5 30	45 16	81·0	999·4	1008·7	− 0·2	306·3	309·6	16th	295·4	293·6	6th	300·8	*299·8*	+0·2	114	+32
929	Quixeramobim	5 16	39 15	207	987·8	1011·1	+ 0·3	306·1	307·1	16th	298·2	297·0	4th	302·2	*301·8*	+0·4	0	− 4
930	ϕFernando Noronha	3 50	32 25	106	1000·1	1012·0	− 0·2	301·4	302·2	20th	297·1	295·5	14th	299·2	*298·8*	+0·5	11	+ 3
934	Ascension Island	7 56	W14 25	16·8	1012·0	1013·8	− 0·6	303·1	305·2	17th	295·5	294·1	6, 11,17	299·3	*298·6*	+1·4	3	− 8
939	Loanda	8 49	E 13 13	51	..	1011·5	+ 0·2	300·7	302·5	20th	295·4	294·0	24th	298·1	297·7	0·0	23	− 92
940	Brazzaville	4 17	15 16	321	976·9	1013·0	+ 1·2	305·4	308·0	2nd	294·0	292·0	18th	299·7	*299·0*	+0·8	85	
943	Masaka	0 21	31 47	?1280	..	..	..	304·9	306·3	4th	..	..	..	..	*292·6*	0·0	128	+ 31
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	296·3	299·7	22nd	286·9	281·3	21st	291·6	..	..	143	+ 39
944*a*	Zanzibar	6 10	39 11	21·9	1012·2	1014·6	0·0	302·2	303·6	23rd	298·2	297·1	2nd, 28th	300·2	*299·6*	0·0	214	+ 25
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·0	304·1	23rd	297·0	294·1	11th	299·5	*299·1*	−0·8	72	+ 10
947	Seychelles, Port Office	4 37	55 27	4·6	1011·8	1012·4	+ 0·5	301·1	302·4	20th	297·7	295·7	3rd	299·4	*298·6*	+0·3	230	
957	ϕPadang	0 56	100 22	6·7	1009·3	1010·1	− 0·7	..	..	..	..	..	..	..	..	..	428	− 81
958	Batavia	6 11	106 50	8·0	1009·1	1010·0	+ 0·3	304·6	306·2	17th	296·5	295·2	7th	300·6	299·9	+0·6	98	− 41
958*a*	Pontianak	0 1	109 20	2·6	1010·5	1010·8	+ 1·0	..	..	..	..	..	..	..	..	..	382	− 22
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	0	− 63
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	20	−181
962	Amboina	3 42	128 10	4·2	1008·9	1009·3	+ 0·4	..	..	..	..	..	..	..	..	..	29	− 82
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	85	− 83
965	Daru	9 4	143 13	7·6	..	..	..	303·6	..	..	297·8	..	..	300·7	*300·3*	+0·5	14	− 70
966	ϕPort Moresby	9 29	147 9	39·0	..	1010·1	+ 0·1	303·9	..	..	297·3	..	..	300·6	*300·1*	+0·2	19	− 31
967	Rabaul	4 9	152 12	20·7	..	1008·1	..	305·7	306·9	24th	295·8	294·4	19th	300·8	*300·2*	0·0	193	+ 9
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1008·5	1008·7	+ 0·2	304·1	306·2	14th	297·3	296·0	30th	300·7	*300·5*	−0·2	140	− 94
970	Ocean Island	0 52 S.	169 35 E.	54·0	1000·3	1006·5	− 1·4	303·6	305·8	4th	296·7	294·7	22nd	300·1	*299·3*	−1·0	299	+155

NOVEMBER—ZONE 10.

Between Latitude 10° S. and 20° S.

1002	Apia, Samoa	13 48 S.	171 46 W.	2	..	1009·7	+ 0·2	302·3	304·8	9th	295·8	293·6	21st	299·0	298·6	−0·3	200	− 50
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	301·3	304·7	5th, 8th	292·4	287·4	21st	296·9	*296·7*	−1·3	113	− 9
1021	ϕArequipa	16 22	71 33	2452	760·9	..	+ 0·3	294·1	296·1	26th	283·6	280·3	20th	288·8	*288·9*	+1·4	5	+ 4
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	284·4	283·0	sev. dates	..	*290·9*	..	0	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·4	..	..	294·6	298·1	5th	283·8	280·8	14th	289·2	*288·9*	..	89	+ 20
1025	ϕCorumba	18 59	57 39	116	995·6	1008·7	+ 0·7	304·7	308·0	28th	294·8	291·8	21st	299·8	*299·2*	−0·4	81	− 45
1026	ϕCuyaba	15 36	56 6	165	990·6	1009·3	+ 0·7	305·7	309·3	27th	294·7	291·9	19th	300·2	*299·0*	−0·6	131	− 20
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	914·4	1012·9	+ 0·5	301·6	306·2	5th	289·9	287·8	25th	295·8	*295·5*	−0·4	74	− 61
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1006·8	1012·1	− 0·2	302·2	306·2	20th	295·9	294·5	29th	299·0	*298·5*	+0·4	132	+ 9
1030	ϕAracaju	10 55	37 3	6·1	1013·2	1014·0	+ 0·4	301·8	307·7	20th	295·9	293·4	14th	298·8	*298·5*	−0·8	40	+ 20
1035	St. Helena	15 57	W 5 40	‡604	947·1	1016·5	+ 1·8	293·3	295·3	21st	285·3	284·2	2nd	289·3	*288·6*	+0·7	18	− 25
1039	Mossamedes	15 12	E 12 0	12·5	..	..	..	..	302·5	3rd	..	285·9	15th	..	*292·8*	..	6	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1041*a*	Elisabethville	11 39	27 28	1236	876·6	1007·5	− 0·6	305·4	308·6	23rd	289·3	286·8	7th	297·4	..	+1·2	39	− 24
1042	Gwelo	19 28	29 48	1417	861·3	1009·3	+ 0·1	306·3	311·4	10th	290·8	286·3	9th	298·6	..	+3·7	90	− 64
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1463	‡852·2	‡1005·9	− 1·2	306·2	310·2	10th	287·8	283·8	6th	297·0	*295·8*	+2·5	38	− 74
1044	Zomba	15 23	35 18	955	905·8	1008·1	− 1·7	306·2	310·8	22nd	293·3	290·2	6th	299·7	*299·2*	+2·5	20	− 12
1045	ϕAntananarivo	18 55	47 33	375	865·1	1011·9	+ 0·1	302·3	307·0	16th	287·4	278·5	3rd	294·9	293·6	+0·9	6	..
1046	Tamatave	18 10	49 24	5	..	..	..	301·3	303·0	..	293·1	288·0	..	297·2	*296·7*	..	131	..
1047	Vohémar	13 21	50 1	3	..	..	..	305·0	306·1	..	295·0	293·0	..	300·0	*299·4*	..	22	..
1048	Antalaha	14 58	50 19	3	1014·6	1014·9	..	..	..	..	..	..	..	..	..	..	44	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1015·3	1015·9	+ 2·3	302·1	303·1	26th, 27th	297·6	296·9	4, 5, 20	299·8	*299·4*	−0·1	0	−120
1057	ϕChristmas Island	10 25	105 43	5·5	1009·3	1009·9	+ 1·0	305·1	306·3	21st	296·7	294·7	3rd	300·9	*300·3*	+0·6	9	−203
1061	Kupang	10 10	123 34	45·1	1004·8	1010·2	+ 1·0	307·0	309·5	12th	297·1	295·3	11th	302·0	301·4	+0·8	30	− 37
1061*a*	ϕDerby	17 18	123 40	16·2	1008·6	1010·5	+ 1·2	308·7	314·2	22nd	299·0	295·3	1st	303·9	..	+0·3	0	− 36
1062	ϕHall's Creek	18 13	127 46	373	969·4	1010·0	+ 1·2	311·2	314·9	14th	294·8	289·1	22nd	303·0	*302·3*	−0·4	20	− 34
1063	Darwin	12 28	130 51	29·6	1006·8	1010·1	+ 1·5	307·4	309·4	17th	298·3	294·8	1st	302·8	*301·6*	−0·1	89	− 36
1064	Daly Waters	16 16	133 23	211	984·1	1007·1	− 0·8	312·8	315·2	11, 12, 30	297·3	290·8	21st	305·1	*304·4*	+0·9	26	− 40
1065	ϕMein	13 13	142 47	122	994·8	1008·3	0·0	308·0	312·3	17th	293·7	290·7	14th	300·8	..	−0·4	93	− 46
1066	ϕGeorgetown, Queensland	18 22	143 32	302	977·1	1010·1	0·0	310·8	313·9	16th	294·9	284·7	19th	302·9	..	+1·1	2	..
1066*a*	Willis Island	16 18	149 59	8·5	1010·3	1011·4	..	301·6	303·1	18th, 29th	297·1	295·4	26th	299·3	*298·9*	..	1	−127
1067	Samarai	10 37	150 40	15·2	..	1010·0	+ 0·3	302·4	..	..	296·7	..	..	299·6	*299·4*	0·0	52	
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1011·3	1011·9	− 0·5	299·8	302·0	18th	293·8	290·3	22nd	296·8	*296·6*	−1·3	348	+167
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112. ϕ Change of normals *see* pages 112 and 113.

NOVEMBER—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1165	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	299·2	300·8	8th, 19th	291·3	288·6	21, 22, 23	295·2	*295·0*	−1·5	121	− 32
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1011·9	1015·1	− 0·9	291·3	294·2	26th	286·0	284·9	3rd	288·7	*288·3*	+0·8	0	− 1
1122	Iquique	20 12	70 11	9	1013·4	1014·5	− 1·0	294·8	298·0	28th	287·7	286·4	15th	291·3	*291·6*	+0·1	0	0
1123	Catamarca	28 27	65 47	510	950·3	1006·8	− 0·8	305·8	313·2	7th	290·8	284·0	18th	298·3	298·2	+0·6	29	− 5
1124	Salta	24 46	65 28	1178	880·9	1008·2	+ 0·5	301·6	309·3	30th	287·5	281·0	22nd	294·5	294·7	+0·6	7	− 50
1125	Goya	29 9	59 15	26	1007·3	1010·3	+ 0·9	302·9	309·0	8th	290·6	286·3	10th	296·7	296·4	+0·9	103	− 1
1126	Asuncion	25 17	57 41	93	999·9	1010·7	+ 0·9	304·5	310·0	8th	291·8	286·4	11th	298·2	297·4	−0·3	102	− 47
1127	Curityba	25 25	49 17	908	911·9	1013·0	− 0·1	297·0	303·7	30th	285·4	279·4	26th	291·2	*290·5*	−0·4	57	− 69
1128	Rio de Janeiro	22 54	W43 10	33·0	1009·3	1013·1	+ 0·6	300·5	309·5	9th	292·2	289·1	28th	296·4	296·1	+0·2	‡49	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	302·5	306·3	4th	289·1	280·4	14th	295·8	*296·0*	+0·5	3	− 18
1140	Kimberley	28 42	24 47	1202	880·4	1008·8	− 0·1	304·3	309·7	5th	287·7	281·3	10th	296·0	296·1	+1·6	23	− 15
1141	Johannesburg	26 11	28 4	1806	821·6	1009·9	− 0·5	298·8	304·6	6th	286·7	282·4	10th	292·8	*292·4*	+2·3	113	− 13
1142	Bulawayo	20 9	28 35	1340	867·1	1008·5	− 0·7	304·5	309·1	10th	290·2	287·8	5th	297·4	*297·0*	+1·9	76	− 7
1143	Durban	29 52	31 3	15·2	1013·0	1014·8	− 1·6	299·2	301·7	19th	293·0	288·6	7th	296·1	*295·6*	+1·4	61	− 65
1144	Lourenço Marques	25 58	32 36	59	..	1012·3	− 2·3	302·6	312·4	22nd	293·9	289·2	4th	298·3	297·7	+1·5	67	− 9
1145	Tulear	23 23	43 40	4	..	..	..	..	..	..	..	..	..	..	..	..	15	..
1146	Fort Dauphin	25 2	46 58	25	..	1014·6	..	299·7	303·0	..	289·4	284·0	..	294·6	*293·9*	..	0	..
1147	Mauritius	20 6	57 33	55·2	1010·0	1016·4	+ 0·3	301·9	305·2	30th	293·3	290·9	2nd, 17th	297·6	297·3	+0·4	4	− 36
1159	Onslow	21 43	114 57	4·3	1009·1	1009·9	0·0	310·4	317·2	25th	291·5	286·9	1st	300·9	..	+1·5	0	− 1
1160	Cue	27 27	117 52	454	962·0	1011·9	+ 1·1	308·1	314·7	23rd	291·9	283·9	10th	300·0	..	+1·7	0	− 7
1161	ϕNullagine	21 53	120 5	386	966·9	1008·4	+ 0·2	312·6	314·1	26th	293·8	286·7	25th	302·7	..	−0·1	4	− 10
1162	Laverton	28 40	122 23	466	961·9	1013·3	+ 1·4	307·0	314·8	23rd	290·7	284·0	4th	298·8	*298·6*	+1·4	2	− 19
1163	Alice Springs	23 38	133 37	587	947·3	1011·6	+ 0·7	305·3	311·6	26th	287·7	283·0	19th, 23rd	296·5	*296·3*	−2·6	3	− 23
1164	ϕWilliam Creek	28 55	135 21	76·2	1006·4	1015·1	+ 2·6	303·8	313·6	26th	286·3	280·2	5th	295·1	*294·6*	−2·8	1	− 10
1024	Boulia	22 55	139 38	146	994·1	1010·3	+ 1·6	308·9	312·8	27th	291·4	286·5	19th	300·2	*300·0*	−1·7	0	− 29
1025	Thargomindah	27 58	143 43	123	998·5	1012·5	+ 1·8	304·1	310·9	26th	292·1	284·8	6th	298·1	*297·7*	−1·2	3	− 21
1026	Mitchell	26 32	147 52	336	974·2	1011·2	..	305·4	310·2	12th	286·4	280·2	7th	295·9	..	−1·3	2	− 48
1167	ϕRockhampton	23 24	150 30	11·3	1010·7	1012·0	− 1·2	305·4	309·9	13th	293·4	288·6	19th	299·4	..	+0·8	64	+ 9
1168	ϕBrisbane	27 28	153 2	41·8	1008·6	1013·4	− 1·1	300·9	307·8	9th	290·9	287·7	7th	295·9	*295·2*	−0·2	31	− 64
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1016·4	1018·1	+ 1·5	297·1	300·8	17th	290·7	288·0	2nd	293·9	*293·5*	+1·6	39	− 31

Between Latitude 30° S. and 40° S.

1121	Juan Fernandez	33 37 S.	78 50 W.	345	..	..	..	288·7	291·8	6th	282·3	279·5	9th	285·5	*285·2*	..	111	..
1122	Punta Tumbes	36 37	73 6	120	1001·9	1016·4	− 0·8	289·1	292·0	30th	282·3	278·0	9th	285·7	*285·7*	−0·2	35	+ 18
1123	Punta Angeles, Valparaiso	33 1	71 38	41	1010·3	1015·2	− 1·0	294·0	306·0	6th	284·6	283·0	11th, 14th	289·3	*288·9*	0·0	2	− 6
1124	Santiago	33 27	70 42	520	953·9	1013·5	− 1·1	298·8	304·2	28th	282·8	280·3	3rd	290·8	*289·9*	+0·8	5	− 1
1125	Cordoba	31 25	64 12	423	962·6	1010·6	− 0·2	302·1	311·9	8th	287·2	280·4	10th	294·7	294·0	+0·8	110	+ 15
1126	Bahia Blanca	38 45	62 15	25	1009·0	1012·0	− 0·5	297·4	303·3	28th	284·7	279·2	22nd, 23rd	291·1	290·8	−0·8	80	+ 27
1127	Buenos Ayres (Chacarita)	34 36	58 22	25	1010·3	1013·2	− 0·4	297·0	304·3	29th	285·7	280·1	10th	291·3	291·7	−0·1	80	0
1128	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1012·6	− 0·6	..	304·0	29th	..	283·0	10th	..	*291·4*	+0·1	107	+ 19
1129	ϕPorto Alegre	30 2	W51 13	23·5	1009·3	1012·0	− 1·0	299·2	309·7	30th	288·0	282·8	11th	293·6	293·5	−0·8	83	+ 6
1139	ϕCape Town	33 56	E 18 29	12·2	..	1014·8	− 1·0	296·5	304·2	30th	287·1	282·8	5th	291·8	*290·7*	+0·8	82	+ 54
1140	Danger Point	34 37	19 18	27·7	1010·4	1013·7	..	294·2	302·4	21st	287·8	281·9	8th	291·0	..	+1·3	92	+ 50
1141	Riversdale	34 6	21 16	‡‡100	1002·2	1013·9	..	298·6	303·0	24th	287·4	280·2	7th	293·0	..	..	62	+ 27
1142	East London	33 2	27 55	44·8	..	1014·1	− 1·0	297·4	301·6	29th	289·3	285·7	3rd	293·3	..	+1·5	66	+ 1
1159	ϕPerth (Observatory)	31 57	115 51	60·0	1009·6	1016·9	+ 1·3	298·4	308·0	22nd	286·1	281·2	11th	292·2	*291·9*	+0·3	1	− 19
1160	Katanning	33 42	117 35	310	979·8	1015·7	+ 0·9	299·2	310·8	23rd	281·4	274·7	4th	290·3	..	−0·3	3	− 14
1161	Coolgardie	30 57	121 10	423	966·8	1014·2	+ 1·3	304·5	314·6	24th	287·2	279·6	4th	295·9	*295·7*	+1·4	0	− 17
1162	Eucla	31 45	128 58	4·6	1016·3	1016·8	+ 2·2	290·4	314·1	25th	285·7	275·8	1st	291·1	*290·5*	−0·7	1	− 17
1163	Streaky Bay	32 48	134 13	13·1	1016·4	1017·7	+ 2·3	298·9	312·0	25th	285·1	278·0	5th	292·0	*291·2*	−0·4	2	− 15
1164	ϕAdelaide	34 56	138 35	42·7	1011·3	1016·3	+ 1·2	297·3	309·8	25th, 26th	284·1	279·9	28th	290·7	*290·2*	−1·7	12	− 17
1165	ϕMelbourne	37 49	144 58	35·1	1009·1	1013·1	− 1·1	293·4	311·3	26th	283·0	278·5	10th	288·2	*288·0*	−1·1	71	+ 14
1166	Bourke	30 13	145 58	110	1004·1	1016·8	+ 1·5	303·9	314·1	26th	287·3	280·8	6th	295·6	..	−2·7	2	− 30
1167	ϕSydney	33 51	151 13	42·1	1006·8	1011·8	− 1·9	296·6	310·7	27th	286·4	282·5	22nd	291·5	*291·5*	−0·9	35	− 37
1168	ϕLord Howe Island	31 20	159 0	4·6	1014·6	1015·1	− 0·7	295·8	297·7	30th	288·1	283·4	17th	291·9	..	−0·9	163	+ 57
1171	Auckland	36 50	174 50	38·1	..	1018·2	+ 3·4	292·6	295·2	29th	286·7	283·6	5th, 14th	289·6	..	+0·9	62	− 21
1172	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Between Latitude 40° S. and 50° S.

1121	Chatham Island	43 57 S.	176 31 W.	45·7	..	1012·1	..	..	..	..	..	..	..	..	..	..	61	− 9
1121	Isla Guafo	43 34	74 45	140	997·1	1014·1	− 2·1	284·1	286·5	25th	280·8	278·0	30th	282·5	*282·3*	−0·2	59	− 6
1122	Punta Galera	40 1	73 44	40	1012·7	1017·6	0·0	286·9	290·0	26th	282·3	278·0	10th	284·6	*284·9*	+0·1	117	+ 10
1123	Sarmiento	45 30	69 0	274	976·4	1007·1	− 1·9	293·9	303·4	23rd	281·3	276·3	9th	287·6	287·0	+0·3	9	+ 3
1124	Puerto Madryn	42 49	W64 58	14	1008·4	1010·0	− 0·1	293·8	299·7	2nd	282·0	275·0	22nd	287·9	288·0	−0·9	23	+ 14
1065	Launceston	41 27	E147 10	10·1	1006·8	1008·0	− 2·7	292·1	300·8	26th	280·9	276·2	6th	286·5	*285·7*	−1·0	90	+ 44
1066	ϕHobart	42 53	147 20	53·9	1001·4	1008·0	− 1·3	289·8	302·0	26th	281·3	276·4	7th	285·5	*284·7*	−1·5	173	+110
1170	Invercargill	46 25	168 21	3·7	..	..	..	292·3	301·3	28th	280·9	275·2	14th, 18th	286·6	..	+2·0	69	− 43
1171	Dunedin	45 52	170 31	91·4	..	1011·4	+ 2·4	293·0	301·9	27th	283·1	279·1	12th, 13th	288·1	..	+3·3	49	− 35
1172	Christchurch	43 31	172 39	7·6	..	1012·7	+ 4·2	295·1	305·2	28th	283·0	277·9	12th	289·0	..	+2·4	13	− 34
1173	Wellington	41 16 S.	174 46 E.	3·0	..	1016·5	+ 5·1	292·4	296·1	19th	285·2	277·2	14th	288·8	..	+2·0	19	− 70
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 113 and 114. ϕ Change of normals *see* pages 113 and 114.

NOVEMBER—ZONE 12.

NOVEMBER—ZONE 13.

RÉSEAU MONDIAL

Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

NOVEMBER—ZONE 14.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	995·4	1002·1	+ 0·2	281·3	285·3	23rd	277·7	274·5	5th, 6th	279·5	*279·4*	+0·2	243	— 8
1422	Puerto de Punta Arenas	53 10	70 54	28	998·7	1002·1	+ 1·6	284·2	290·6	25th	277·9	274·5	6th, 8th	281·1	*281·4*	0·0	43	+ 13
1423	Punta Dungeness	52 24	68 26	5	1000·7	1001·3	+ 2·2	286·3	290·7	26th	277·4	274·9	7th	281·9	*280·5*	−1·0	23	+ 14
1424	Santa Cruz	50 11	68 21	12	1001·6	1002·6	— 0·8	291·0	302·0	25th	279·4	273·0	4th	285·2	284·7	0·0	24	+ 12
1424a	‡Año Nuevo	54 39	64 8	50	..	..	..	282·7	290·0	25th	276·3	272·0	11th	279·5	*278·8*	−0·1	37	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1003·3	..	281·4	286·3	19th	276·3	272·4	1, 10, 11	278·8	..	..	35	— 18
1426	Cape Pembroke	51 41	57 42	21·3	1000·7	1003·3	+ 4·1	280·8	285·8	19th	275·8	272·4	9th, 11th	278·3	278·6	−1·2	..	..
1429	S. Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	1001·6	1002·1	+ 8·5	278·6	286·5	25th	271·2	268·0	2nd	274·9	*275·5*	−0·5	52	— 34

NOVEMBER—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44 S.	44 39 W.	7	994·3	995·2	+ 6·1	273·3	278·6	24th	268·9	265·0	12th	271·1	271·3	+0·5	79	+ 44
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡*See* "Remarks" page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS—NOVEMBER 1923.

Date	St. Helena. 1035. Direction.	St. Helena. 1035. ††Mean Velocity for the Day.	Fanning Island 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).	Entebbe. 844. Direction and Force (Beaufort).	Malden Island. 905. Direction and Force (Beaufort).	Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).		Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s	9h.	17h.	7h.	21h.	9h.	20h.	8h.	20h.	9h.
1	SE	7·0	SE 4	NE 2	S 2	W 1	EbyS 1	EbyS 2	SE 2	NW 1	N 4
2	SSE	9·3	ESE 3	NE 2	SW 2	NE 2	Calm 0	EbyS 2	SE 2	S 1	Calm 0	SE 5
3	SE	11·4	SE 4	ENE 1	Calm 0	NW 1	Calm 0	EbyS 2	EbyS 3	SE 2	Calm 0	SSE 3
4	SE	9·3	SE 3	ENE 2	SW 2	NW 2	Calm 0	EbyS 2	EbyS 2	SE 2	Calm 0	Calm 0	SE 4
5	SE	10·1	ESE 4	ENE 2	Calm 0	NW 2	Calm 0	EbyS 2	E 1	Calm 0	NE 1	Calm 0	SE 3
6	SE	8·8	ESE 4	ENE 1	SW 2	Calm 0	Calm 0	EbyN 2	E 2	SE 2	W 1	WNW 1	SSE 3
7	SE	6·9	ESE 3	SW 1	WSW 2	Calm 0	NW 1	E 2	E 2	SE 2	W 1	N 1	E 3
8	SE	8·4	SE 3	ENE 2	SW 1	N 2	Calm 0	E 2	EbyN 2	SE 2	NE 2	ENE 2	SE 5
9	SE	8·0	ESE 3	NNE 2	SW 2	SE 2	Calm 0	E 2	E 2	SE 2	NE 1	NE 1	SE 5
10	SE	7·0	SE 3	SW 2	SW 2	Calm 0	S 2	EbyN 3	E 1	SE 1	E 6	NE 1	E 3	SSE 5
11	SE	5·8	SE 4	N 1	SW 1	NE 1	Calm 0	E 1	E 2	Calm 0	NE 1	Calm 0	SE 5
12	SE	6·0	ESE 4	ENE 2	SW 1	NW 1	Calm 0	EbyN 1	NE 1	Calm 0	SW 1	Calm 0	SE 5
13	SE	3·5	Calm 0	ENE 1	WSW 2	SW 1	Calm 0	NE 1	NE 1	SE 1	Calm 0	Calm 0	E 4
14	SE	5·6	WSW 1	ENE 2	NW 1	SE 2	Calm 0	EbyN 1	Calm 0	Calm 0	NE 1	Calm 0	SE 4
15	SE	3·7	SE 4	SW 1	SW 2	NW 1	S 1	EbyN 1	NE 1	SE 1	W 1	WSW 1	SE 4
16	SE	2·1	SE 3	SSW 1	SSW 2	N 2	Calm 0	NE 1	NE 1	Calm 0	SW 2	W 6	SE 4
17	Calm	0·7	SE 2	Calm 0	WSW 2	NW 1	Calm 0	EbyN 1	NE 1	SE 2	NNW 5	NW 6	SE 4
18	Calm	2·0	Calm 0	S 1	Calm 0	Calm 0	Calm 0	NE 1	NE 1	SE 2	W 6	NW 5	E 4
19	ESE	3·5	ESE 1	NE 2	SW 3	NE 1	Calm 0	NE 1	E 1	SE 2	NW 5	W 7	E 4
20	ESE	4·7	SE 1	Calm 0	SW 2	E 1	Calm 0	E 1	SE 1	Calm 0	WNW 4	W 1	E 4
21	ESE	4·9	SE 1	NE 3	Calm 0	N 1	Calm 0	EbyS 1	E 1	Calm 0	W 2	NW 5	E 4
22	ESE	7·7	ESE 3	NE 2	SW 1	E 1	Calm 0	E 1	E 1	Calm 0	WNW 5	WNW 6	E 4
23	SE	6·8	SE 3	NNW 2	Calm 0	N 1	SW 1	E 1	E 2	W 2	WNW 3	NNW 5	N 4
24	ESE	6·6	SE 2	NE 1	SW 1	Calm 0	Calm 0	E 1	NE 1	Calm 0	N 1	WNW 1	N 4
25	SE	7·6	ESE 2	SE 1	SW 1	NW 2	Calm 0	NE 2	NE 1	Calm 0	WNW 1	Calm 0	ESE 4
26	SE	6·5	ESE 1	Calm 0	SW 3	S 1	SW 1	EbyN 1	NE 1	Calm 0	WNW 1	ENE 2	NE 4
27	SE	3·3	E 2	Calm 0	SSW 1	Calm 0	S 2	NE 1	E 2	Calm 0	ENE 1	NNW 3	NE 4
28	Calm	1·4	SSE 2	SW 2	W 1	Calm 0	S 1	E 2	EbyN 1	Calm 0	W 1	W 1	SE 4
29	SE	4·0	S 4	NNE 1	SW 1	NW 1	Calm 0	EbyS 1	EbyS 1	Calm 0	W 1	Calm 0	SE 4
30	ESE	4·7	SSE 3	NNE 1	SW 1	Calm 0	SW 1	EbyN 2	EbyN 3	Calm 0	NNE 1	W 1	ESE 6
Mean	..	5·9	2·6	1·4	1·3	1·0	0·4	1·4	1·4	0·9	2·0	2·0	4°
§Resultant	130° (85)	..	130° (80)	225° (17)		300° (10)		80° (92)		140° (44)	320° (38)		115° (74)
§Normal	142° (93)	8·3	‖116° (76)	285° (8)		255° (36)		‖‖72° (82)		131° (52)	‖108° (36)		101° (63)

‖ Normal refers to ½ (9 + 21). ‖‖Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—NOVEMBER 1923.

‡‡*White Sea.*—Navigation was still possible at Archangel at the end of this month.

‡‡*Spitsbergen.*—The fjords and Foreland Sound commenced to freeze over.

‡‡*Iceland* was free of ice as is usual in this month.

‡‡*Greenland Sea and Denmark Strait.*—The ice edge was 7 miles off shore at Bass Rock. At Angmagsalik the "Storis" was lying close inshore at first, but later it scattered near the land, and open sea was visible towards north-east, although elsewhere the ice was lying packed. At Tasiuak the ice belt (about 8 miles wide) was lying 8 miles offshore.

‡‡*N. Atlantic and Labrador.*—No icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 4. In Belle Isle Strait a few icebergs were observed, some reaching to 130 miles east of Belle Isle. No ice occurred in the Gulf of St. Lawrence up to the 12th.

‡‡*Davis Strait and Baffin Bay.*—A belt of ice was met with from Cape Farewell to Arsuk. From Nunarsuit to Arsuk the belt was 30 miles wide and across Julianehaab Bay the ice was lying to a distance of 90 miles offshore. It is very unusual for there to be so much ice in November. At Frederikshaab the winter ice began to form. Further north along the west coast of Greenland the sea was free of ice except for some odd icebergs. The sea was open to the east of Baffin Island, and on the 22nd no ice was observed from Frozen Strait outside the edge. Sledging was first possible on the ice in Eclipse Sound on the 1st; normally it begins on October 1st.

‡‡ *Isforholdene i de arktiske Have*, 1923 and 1924, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, DECEMBER 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE MONTH OF DECEMBER 1923 BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **DECEMBER—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	1014·9	..	247·2	273·0	31st	239·2	228·6	24th	243·2	..	−3·6	9	— 2
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124																		
125	Upernivik	72 47	56 7	19·2	1001·2	1003·7	— 2·6	264·8	273·4	26th, 27th	260·0	256·0	11th, 12th	262·4	*262·0*	+6·0	32	+ 19
133	Germaniahavn	74 30	18 45	5·5	1007·2	1008·0	..	258·1	266·2	3rd	249·4	240·6	16th	253·7	*253·2*	..	41	..
135	Jan Mayen	70 59	W 8 18	23·1	997·6	1000·5	..	..	277·6	31st	266·4	260·9	6th	..	*269·2*	..	26	..
139	§Spitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1001·5	1003·0	— 4·0	..	276·4	8th	259·2	248·6	4th	..	263·1	+4·5	49	+ 10
140	Björnöen	74 28	19 15	40·5	997·7	1002·8	..	..	275·8	8th	266·4	257·5	21st	..	*269·0*	..	16	..
141	Gjesvaer	71 6	25 22	6·5	1002·6	1003·4	— 0·4	..	281·0	12th	268·5	260·2	24th	..	*271·2*	+1·4	39	— 26
142	Mehavn	71 1	27 47	4·6	1002·8	1003·9	— 1·0	..	279·0	12th	267·0	256·3	27th	..	*269·8*	+1·0	141	+ 56
143	Vardö	70 22	31 8	6·8	1003·3	1004·2	— 0·8	..	277·2	12th	267·6	262·3	24th	..	*270·2*	+1·6	57	— 7
147	Malye Karmakouly	72 23	52 43	14·8	1005·0	1006·9	— 2·9	266·6	274·0	13th	259·5	244·6	22nd	263·0	*263·3*	+4·6	29	+ 19
148	Waigatz	70 24	58 47	11·2	1006·3	1007·8	— 0·8	267·5	274·9	16th	258·6	243·8	24th	263·0	*263·1*	..	16	..
153	Dickson	73 30 N.	80 23 E.	13	1005·2	1007·0	..	254·5	269·5	14th	246·6	235·3	22nd	250·6	..	..	4	..

Between Latitude 70° N. and 60° N. **DECEMBER—ZONE 2.**

203	Nome	64 30	165 24	6·7	..	1003·4	— 4·7	257·6	273·6	31st	251·0	239·7	23rd	254·3	*254·5*	−4·1	40	+ 12
204	Candle	65 55	161 57	2·4	..	..	..	253·6	271·9	30th	243·8	233·0	22nd, 23rd	248·7	..	−4·5	..	..
205	Tanana	65 10	152 6	67·1	..	1009·1	— 4·6	249·2	259·1	31st	241·6	228·6	9th	245·4	..	−3·5	5	— 13
206	Rampart	65 30	150 15	122	..	..	..	248·0	253·0	21st, 22nd	241·5	228·6	29th	244·8	..	−3·3	5	— 12
207	Valdez	61 7	146 16	8·2	..	..	..	269·6	275·8	4th	259·7	248·6	19th	264·6	..	−1·2	70	— 73
208	ϕEagle	64 46	141 12	254	..	1010·5	— 4·0	247·7	256·9	20th	238·6	224·1	29th	243·1	..	−5·6	9	— 3
209	ϕDawson	64 4	139 29	324	968·6	1013·0	— 3·7	248·6	260·2	21st	243·6	230·8	29th	246·1	..	−2·1	24	— 4
210	Carcross	60 11	134 34	662	..	..	..	261·4	276·3	22nd, 24th	256·1	235·8	30th	258·8	..	−0·1	23	+ 5
211	Fort Good Hope	66 25	128 53	65·2	1010·3	1019·8	..	243·3	261·9	17th, 24th	233·2	224·7	27th, 28th	238·2	..	..	10	— 10
212	Fort Simpson	61 52	121 35	129	995·5	1013·6	— 3·3	249·1	253·0	17th, 31st	240·9	225·8	28th	245·0	..	−3·6	23	0
213	Hay River	60 51	115 20	161	991·0	1013·0	— 3·2	253·4	274·7	22nd	245·7	231·3	28th	249·6	..	−2·4	77	+ 63
225	Jacobshavn	69 13	51 2	12·6	998·6	1000·2	— 3·6	266·3	277·7	26th	260·5	252·6	12th	263·4	*263·8*	+3·8	24	+ 11
226	Godthaab	64 11	51 43	20·4	995·9	998·5	— 1·1	270·4	276·7	24th	265·7	258·1	11th, 13th	268·1	*267·8*	+2·7	32	— 8
227	Ivigtut	61 12	48 10	13·0	999·0	1000·7	+ 1·6	271·9	280·2	25th	265·9	257·5	12th	268·9	*269·1*	+2·4	131	+ 53
229	Angmagsalik	65 37	37 33	31·7	995·1	999·1	— 0·3	270·6	277·9	29th	263·3	254·0	1st	266·9	*267·2*	+1·5	81	+ 9
231	Stykkisholm	65 5	22 46	25	997·4	1000·6	+ 1·8	274·3	281·9	31st	268·9	262·6	8th, 19th	271·6	*271·4*	−0·3	74	+ 9
232	Vestmanno	63 24	20 17	132	984·3	1000·7	+ 3·7	277·9	282·3	31st	271·2	264·1	19th	274·5	*273·7*	+0·1	163	+ 24
233	Grimsey	66 33	18 1	22·0	996·7	999·4	— 1·4	273·0	277·3	9th	266·1	262·4	18th	271·1	*271·0*	−0·7	6	— 13
234	Teigarhorn (Berufjord)	64 41	14 22	18·0	999·0	1001·2	+ 1·3	274·2	281·2	15th	268·8	262·6	19th	271·5	*271·6*	−0·9	80	— 57
235	ϕThorshavn	62 3	6 45	26·3	1001·0	1004·3	+ 2·3	277·5	283·0	11th	272·4	268·4	21st, 26th	274·9	*275·4*	−1·4	159	— 13
236	Lerwick	60 9 W	1 11	18·0	..	1006·8	+ 2·6	278·4	283·0	11th, 14th	275·3	270·2	19th, 26th	276·8	*277·1*	−0·7	133	+ 11
237	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1002·3	1007·9	— 1·1	275·5	281·5	12th	271·5	261·0	25th	273·5	*273·6*	−1·4	164	— 17
238	Aalesund	62 28	6 10	6·3	1005·3	1006·1	— 0·5	..	284·8	11th	272·4	262·5	25th	..	*274·9*	−1·1	104	— 22
239	Trondhjem	63 26	10 25	39·5	1001·7	1006·7	— 0·8	272·5	280·7	14th	266·1	251·4	25th	269·3	*269·5*	−1·1	68	+ 7
240	Bodö	67 17	14 24	22·3	1001·5	1004·3	— 0·6	..	281·8	12th	268·0	258·0	23rd	..	*271·1*	−0·4	105	+ 27
242	Haparanda	65 50	24 9	9·2	1006·4	1007·6	— 2·3	267·7	274·5	9th	261·1	249·5	20th	264·4	*264·6*	+1·2	37	+ 2
242a	ϕHelsingfors	60 10	24 57	11·7	1007·3	1008·8	— 3·4	271·6	278·0	13th	266·6	251·0	30th	269·1	*269·4*	+0·3	61	+ 10
243	Kuopio	62 54	27 40	90·3	997·4	1009·1	— 2·4	267·4	275·4	15th	262·1	244·2	29th	264·7	*265·0*	−0·4	76	+ 29
244	Kola	68 53	33 1	6·7	1006·0	1006·9	— 1·6	268·3	277·0	12th	260·4	244·4	22nd	264·4	*264·8*	+2·3	23	+ 6
245	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
246	Arkhangelsk	64 34	40 31	6·3	1010·8	1011·6	+ 0·5	266·8	274·6	14th	261·6	245·8	30th	264·2	*264·4*	+2·7	35	+ 11
247	§Mezen	65 50	44 16	14·9	1008·6	1010·5	0·0	268·1	275·0	13th	261·8	243·7	30th	265·0	*264·8*	+4·3	21	+ 7
248	Oust-Tsyima	65 25	52 18	? 68	1003·0	1011·9	— 1·1	267·1	273·8	14th	260·9	245·8	23rd	264·0	*264·1*	+5·9	22	0
249	ϕTcherdyn	60 24	56 31	?177	995·6	1018·6	+ 1·4	266·9	273·3	12th	261·5	251·7	1st	264·2	*264·2*	+7·8	49	+ 10
250	Berezov	63 56	65 4	39·5	1012·6	1017·9	— 0·5	263·3	271·8	13th	254·8	239·1	1st	259·0	*260·0*	+7·1	13	— 2
251	Obdorsk	66 31	66 35	23·7	1009·9	1013·0	— 2·3	263·9	274·5	13th, 14th	254·9	239·3	24th	259·4	*259·6*	+8·6	22	+ 11
252	§Sourgout	61 15	73 24	? 40	1014·6	1019·9	+ 0·4	..	271·2	13th	252·1	236·6	1st	..	*267·8*	+5·3	23	+ 2
253																		
254	Doudinka	69 23	86 4	20·0	1008·8	1011·6	— 6·6	..	270·1	15th	243·0	228·1	8th, 10th	..	*248·4*	+2·8	9	+ 2
261	Touroukhansk	65 47	87 57	45·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
262	Viliouisk	63 45	121 35	120	..	..	..	..	262·2	22nd, 23rd	235·5	219·0	12th	..	*239·7*	+3·9	18	+ 8
263	Iakoutsk	62 1	129 43	108	1002·7	1018·3	— 6·9	..	251·0	7th	229·2	217·5	30th	..	*233·6*	+0·3	13	+ 3
271	Verkhoïansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
272																		
		N. °	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	275·5	278·0	24th	270·3	264·1	19th	272·9	..	..	248	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	999·0	— 3·7	272·6	276·3	29th, 30th	268·9	261·9	23rd	270·8	..	+0·3	82	+ 18
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	999·6	— 2·1	275·3	279·7	2nd, 6th	269·2	260·8	9th	272·2	*272·3*	−1·0	..	..
304	Port Moller	55 56	160 30	5·5	..	..	..	272·9	278·0	30th	267·4	260·2	9th, 11th	270·2	..	..	109	..
305	Dillingham	59 0	158 28	24·4	..	..	..	265·2	277·4	25th, 26th	256·6	243·6	8th	260·9	..	−2·3	..	..
306	Kodiak (Radio)	57 46	152 22	6·1	..	995·2	— 6·5	275·3	285·2	..	268·4	263·0	11th	271·9	*271·8*	−0·3	46	−60
										Sea Temp.								
307	55°—50°N. 150°—145°W.	††50 55	††147 12	§(27)	..	1002·7	— 1·7	..	..	278·6 | +0·6	..	..	..	..	277·4	0·0	..	..
309	Sitka	57 3	135 19	27·4	..	1000·7	— 7·1	277·5	283·0	21st	272·3	261·3	30th	274·9	*275·0*	0·0	409	+181
310	Prince Rupert	54 18	130 18	51·8	1000·3	1006·7	— 2·8	278·6	286·3	1st	273·0	259·7	30th	275·8	*275·9*	+0·7	550	+346
311	Barkerville	53 2	121 35	1274	861·3	1012·4	— 3·4	269·1	277·4	16th, 17th	262·4	239·7	30th	265·8	*265·9*	−0·4	123	+ 9
312	Kamloops	50 41	120 29	385	971·9	1019·9	— 2·7	274·7	281·9	10, 17, 18	269·1	245·8	31st	271·9	*271·9*	+1·1	31	−100
313	Calgary	51 2	114 2	1045	889·1	1015·1	— 2·0	274·7	284·1	4th, 16th	259·1	235·8	30th	266·9	*266·5*	+0·9	27	+15
314	Fort Chipewyan	58 42	111 10	218	982·0	1011·4	— 5·4	256·9	286·9	4th	240·3	235·8	28th	251·6	*251·5*	−4·3	13	− 1
315	Prince Albert	53 10	105 38	442	957·6	1014·0	— 4·5	269·1	281·3	18th	257·4	239·1	29th	263·3	*262·6*	+4·9	8	− 5
316	Qu'Appelle	50 30	103 47	645	934·2	1014·9	— 3·7	270·2	279·7	12th, 18th	260·2	240·2	31st	265·2	*264·6*	+5·1	14	− 1
317	Minnedosa	50 15	99 50	515	950·2	1015·5	— 3·7	268·1	277·2	19th	258·3	241·0	31st	263·2	*263·2*	+3·5	6	− 8
318	Berens River	52 18	97 23	216	..	..	..	268·3	277·4	5th, 20th	254·7	240·8	14th	261·5	..	+4·8	8	− 1
318a	ϕPort Nelson	57 0	92 51	14·9	1011·1	1013·1	— 2·8	249·1	255·2	1st	238·1	230·2	14, 17, 21	243·6	..	−6·4	..	..
319	Fort Hope	51 33	87 49	‡260	..	..	..	..	..	..	..	..	..	..	..	..	..	..
320	ϕMoose Factory	51 14	80 30	9·1	1012·4	1013·6	— 2·0	267·1	274·7	13th, 20th	258·1	239·7	30th	262·6	..	+4·6	19	− 8
321	Fort George	53 50	79 5	97·5	..	..	..	263·8	273·6	12th	256·6	241·9	30th, 31st	260·2	*260·1*	..	..	..
322	Mistassini Post	50 15	73 55	383	..	..	..	267·4	275·8	7th	257·9	234·1	31st	262·7	..	+6·0	49	− 1
323																		
324	Natashquan	50 8	61 48	6·1	..	..	..	271·4	280·8	15th	262·2	249·1	20th	266·8	..	+4·1	56	−14
326	ϕBelle Isle	51 53	55 23	130	993·0	..	..	270·9	277·4	7th, 14th	265·7	255·8	16th	268·3	*268·2*	+5·2	..	..
										Sea Temp.								
331	55°—50°N. 30°—25°W.	††50 59	††26 42	§(19)	..	1018·7	..	..	..	284·1 | +1·2	..	..	..	..	283·3	..	..	..
333	53°—18°N. 20°—15°W.	††50 49	††17 30	§ (24–28)	..	1021·8	..	..	..	283·9 | −0·6	..	..	..	..	283·4	..	..	..
333a	62°—57°N. 20°—15°W.	††57 36	††17 44	§ (8)	..	..	..	..	..	282·3 | +0·4	..	..	..	..	280·9	..	..	..
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1017·7	+ 7·0	282·8	284·7	27th	279·3	274·7	6th	281·1	281·2	+0·6	136	+25
335	Aberdeen	57 10	W 2 6	26·8	..	1009·4	+ 2·3	278·3	284·7	16th	274·1	270·2	26th	276·2	276·3	−0·6	105	+ 1
336	ϕGreenwich	51 28	0 0	46·3	..	1015·1	+ 1·1	279·9	283·0	28th	273·4	268·6	25th	276·7	276·9	−0·8	50	−36
337	Uccle	50 48	E 4 22	100	1002·5	1015·0	— 1·7	277·4	281·9	18th	272·1	262·2	31st	274·7	274·4	−1·3	106	+ 2
338	De Bilt	52 6	5 11	3·0	1013·6	1014·0	— 0·6	276·5	281·4	19th	270·3	256·9	31st	273·4	273·4	−2·1	74	− 1
338a	Hamburg	53 33	9 58	40·3	1007·8	1012·9	— 0·9	273·3	280·2	18th	269·9	260·4	27th	271·6	*271·6*	−2·8	41	− 9
339	‡Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1010·3	1010·9	— 2·4	273·9	280·0	11th	270·0	257·0	24th	271·9	*272·0*	−1·9	45	+ 1
340	Potsdam	52 23	13 4	84·9	1002·6	1013·4	— 2·0	272·6	280·9	18th	268·3	256·8	27th	270·5	270·3	−3·4	50	+ 4
340a	Uppsala	59 51	17 38	24	1005·6	1008·7	— 2·5	270·4	276·2	14th, 15th	265·3	249·2	25th	267·9	267·9	−1·5	47	..
341	Warsaw	52 13	21 3	89·9	1000·8	1012·3	— 5·3	273·3	279·3	10th, 18th	269·3	254·4	27th	271·3	271·5	..	39	..
342	Tartu (Ülikooli)	58 23	26 43	74·5	1000·7	1010·2	— 2·8	270·5	275·5	10th	267·1	256·0	31st	268·8	268·9	+0·8	42	..
343	Petrograd	59 56	30 16	4·8	1009·9	1010·5	— 2·4	270·2	275·4	..	266·8	257·9	24th	268·5	*268·6*	+1·4	33	+ 2
344	Kiiv	50 27	30 30	183	992·4	1015·6	— 3·1	271·4	278·3	7th	267·7	253·7	25th	269·6	*269·5*	0·0	59	+ 4
344a	Moscow	55 50	37 33	167	995·1	1016·7	— 0·9	267·7	274·1	8th, 9th	263·2	250·6	28th	265·4	*265·7*	+0·7	24	− 2
345	Saratov	51 33	45 57	122	1006·8	1022·9	+ 1·4	266·0	274·8	1st	259·8	251·8	15th	262·9	*262·8*	−0·4	28	− 1
346	Kazan	55 47	49 8	79·9	1013·2	1023·7	+ 2·6	268·1	273·6	23rd	261·2	255·5	30th	264·6	*264·6*	+1·9	25	− 1
347	Orenburg	51 45	55 6	109	1013·1	1027·6	+ 1·4	265·9	273·9	22nd	257·4	249·2	26th	261·6	*261·4*	−0·2	17	− 3
348	Perm	58 1	56 16	163	1001·2	1022·5	+ 1·3	267·2	271·5	24th	260·9	252·7	1st	264·0	*264·2*	+4·2	37	+ 2
349	Sverdlovsk	56 50	60 38	281	986·8	1023·3	+ 2·0	266·1	269·4	6th	260·4	252·4	29th	263·2	*263·2*	+2·9	17	− 1
350	Tobolsk	58 12	68 14	108	1009·0	1023·3	+ 1·3	264·7	271·6	14th	257·5	243·2	1st	261·1	*261·1*	+4·3	11	− 2
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	266·3	272·8	21st	257·8	248·3	5th	262·0	*262·2*	+3·2	15	+ 1
352	Omsk	55 1	73 19	108	1011·4	1025·8	+ 1·3	264·4	272·1	21st	256·9	245·9	27th	260·6	*260·9*	+4·3	3	− 1
353	Barnaoul	53 20	83 48	162	1008·7	1030·2	+ 1·0	265·5	276·5	1st	256·9	245·4	29th	261·2	*261·4*	+3·1	68	+ 4
354	Tomsk	56 30	84 58	122	1009·6	1026·0	— 0·2	..	273·7	1st	255·0	241·0	11th	..	*259·4*	+3·3	48	+ 2
355	ϕMinousinsk	53 43	91 41	248	908·4	1031·9	0·0	..	273·2	22nd	253·6	236·6	26th	..	*258·4*	+2·6	5	− 3
356	Eniseisk	58 27	92 10	77·6	1014·3	1024·8	— 1·7	..	274·4	1st	250·3	228·5	26th	..	*254·9*	+1·9	21	− 1
357	Irkutsk	52 16	104 19	467	968·0	1030·0	— 1·6	261·4	270·6	16th	251·0	231·4	27th	256·2	256·6	+2·2	20	− 1
358	Kirensk	57 47	108 7	278	987·6	1025·2	— 4·5	..	268·6	18th	248·3	225·8	9th	..	253·1	+6·0	17	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	969·8	1021·5	— 4·2	252·9	261·7	21st	241·9	231·3	16th	247·4	*248·0*	+1·3	9	− 2
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	999·8	1019·2	— 3·9	255·6	266·3	7th	246·6	237·1	15th	251·1	*251·0*	−0·2	12	− 2
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	982·6	993·6	— 9·3	268·7	272·0	18, 22, 24	263·7	255·9	22, 24, 31	266·2	*266·0*	+0·7	52	−29
369																		
		° ′ N.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1007·1	1015·8	— 0·9	280·2	285·8	6th	276·3	264·7	30th	278·3	278·1	+0·2	108	− 38
412	Portland, Oregon	45 32	122 41	46·6	1014·7	1020·3	+ 1·2	280·9	285·8	6th	275·6	264·7	31st	278·3	*278·0*	+0·3	159	− 17
413	Macleod	49 44	113 24	953	..	..	..	275·9	285·2	17th	265·4	236·9	31st	270·7	*270·7*	+2·0	18	+ 4
414	Helena	46 34	112 4	1253	873·4	1020·3	+ 0·1	273·5	283·0	6th	264·4	238·6	31st	269·0	*269·2*	+0·1	14	− 6
414a	Salt Lake City	40 46	111 54	1329	870·6	1022·7	+ 0·5	275·2	285·2	6th	267·8	201·9	11th	271·5	*271·8*	−1·3	23	− 12
415	Cheyenne	41 8	104 48	1856	810·7	1019·3	0·0	277·2	289·1	16th	263·7	239·7	31st	270·4	*270·1*	−0·4	7	− 5
416	North Platte	41 8	100 45	860	918·5	1021·3	+ 0·8	278·8	289·7	7th	265·4	245·8	31st	272·1	*271·0*	+2·0	10	− 4
416a	Bismarck	46 47	100 38	510	955·9	1018·6	— 0·3	275·8	286·3	11th	262·9	245·8	31st	269·3	*268·5*	+5·2	6	− 9
417	Winnipeg	49 53	97 7	232	985·5	1015·4	— 3·3	260·7	279·7	18th	260·8	244·1	30th	265·2	*265·1*	+0·8	7	− 17
418	Duluth	46 47	92 6	345	972·9	1015·9	— 1·7	272·6	283·6	19th	264·5	244·7	31st	268·6	*268·2*	+4·0	21	− 9
419	Port Arthur	48 27	89 12	196	990·5	1015·5	— 1·8	271·3	280·2	20th	264·1	247·4	30th	267·7	*267·6*	+4·8	29	+ 8
420	Chicago	41 53	87 37	251	986·8	1017·6	— 0·8	280·2	284·7	18th	274·3	259·7	31st	277·3	*277·6*	+5·2	50	− 3
421	Toronto	43 40	79 24	116	1001·7	1016·2	— 1·4	278·1	284·6	13th	272·6	265·7	24th	275·3	274·7	+5·0	77	+ 14
422	ϕNew York (Central Park)	40 47	73 58	47·4	1011·9	1017·8	— 0·5	281·6	290·8	13th	275·6	268·0	15th	278·6	278·4	+4·1	113	+ 25
423	ϕSt. John, N.B.	45 17	66 4	36·2	1000·7	1014·3	+ 0·1	275·9	284·3	6th	269·1	257·7	19th	272·5	272·6	+3·7	153	+ 47
424	S.W. Point, Anticosti	49 24	63 33	9·1	1011·9	1013·1	+ 2·2	272·9	279·7	7th	267·8	258·3	29th	270·4	*270·7*	+4·0	61	+ 3
424a	Sable Island (Main Station)	43 57	60 6	7·6	1014·1	1015·0	+ 1·5	279·3	285·2	7th, 14th	274·5	267·4	29th	276·9	*276·9*	+2·1	102	− 36
425	Port aux Basques	47 35	59 10	9·1	1010·7	1011·9	+ 2·0	275·8	281·9	7th, 14th	271·3	265·2	16th, 21st	273·6	*273·4*	+2·8	57	− 78
426	St. John's, Newfoundland	47 34	52 42	48·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
																Sea Temp.		
430	50°—45°N. 35°—30°W.	††49 22	††32 16	§(22)	..	1013·2	..	..	..	285·5 | −0·7	..	..	..	..	284·7	..	..	..
435	Madrid	40 24	3 41	667	945·4	1026·0	+ 4·8	281·6	284·4	28th	272·8	270·3	23rd	277·2	*276·5*	−1·3	10	− 39
436	Nantes	47 15	W 1 34	36·5	1015·0	1019·8	+ 2·9	282·1	286·7	27th	276·2	270·9	1st	279·1	279·2	+0·9	73	− 22
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1011·2	1017·9	+ 1·0	279·5	283·9	28th	273·6	269·1	11th	276·5	276·6	+0·2	121	+ 79
438	Marseille	43 18	5 23	75	..	1013·7	— 2·1	283·4	287·9	27th	276·1	271·8	22nd	279·8	*278·9*	−1·7	67	+ 14
438d	Zürich	47 23	8 33	493	957·4	1017·8	— 1·9	275·8	280·9	28th	271·2	262·3	31st	273·5	273·5	+0·5	147	+ 71
439	Rome	41 54	12 27	45·5	1006·2	1011·4	— 4·5	284·8	288·1	1st	277·9	270·6	23rd	281·4	*281·3*	+0·1	133	+ 35
440	Vienna	48 15	16 22	203	989·1	1014·5	— 4·3	274·3	281·0	19th	270·5	256·3	28th	272·4	272·6	−0·6	86	+ 39
440a	Budapest	47 31	19 2	130	997·7	1014·0	— 4·8	276·5	284·3	10th	271·8	257·5	28th	274·1	274·0	+1·0	47	− 7
441	ϕSofia	42 42	23 20	550	948·2	1015·1	— 5·1	278·0	287·6	1st	271·3	259·7	28th	274·7	*274·1*	+0·9	52	+ 19
442	Bucharest	44 25	26 6	82	1004·0	1014·2	— 6·8	277·8	287·9	3rd	272·4	257·4	31st	275·1	274·9	+2·5	85	+ 45
443	Odessa (Observatory)	46 26	30 46	42·8	1008·8	1014·2	— 5·9	278·5	285·9	2nd	271·9	256·9	27th	275·2	*274·9*	+1·9	52	+ 22
444	Kharkiv (University)	50 0	36 14	140	999·4	1017·1	— 4·3	271·8	279·2	22nd	267·2	253·7	27th	269·5	*269·6*	+1·6	57	+ 22
444a	Novorossiisk	44 44	37 49	37·1	1010·0	1014·5	— 4·8	285·9	293·3	10th	277·2	266·9	27th	281·6	*281·9*	+3·8	111	+ 25
445	ϕTiflis	41 43	44 48	404	974·0	1023·4	0·0	280·6	289·5	23rd	273·6	270·3	11th	277·1	*276·7*	+0·9	16	− 6
446	Astrakhan	46 21	48 2	−20	1025·9	1023·4	— 0·4	274·8	280·2	20th	268·4	261·7	4th	271·6	*271·7*	+1·7	19	+ 5
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1025·4	1022·6	+ 0·5	278·0	282·9	20th	271·5	264·2	5th	274·8	*274·5*	+1·8	1	− 12
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1024·2	1023·6	+ 1·4	281·2	288·5	24th	275·1	266·8	5th	278·2	277·7	−1·5	9	− 5
449	Kasalinsk	45 46	62 7	66·7	1020·6	1029·3	+ 4·9	..	..	..	262·9	251·6	14th	..	*266·5*	+0·3	9	− 4
451	Tashkent	41 20	69 18	478	969·9	1029·3	+ 3·3	279·4	289·3	31st	268·7	258·4	6th	274·0	*273·5*	−2·0	24	− 13
452	Narynskoe	41 26	76 2	?2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Alma Ata	43 16	76 53	841	927·9	1032·2	+ 3·4	272·5	282·8	20th	262·3	254·3	6th, 13th	267·4	*267·2*	−0·8	17	− 15
461	ϕMoukden	41 48	123 23	43·8	1020·0	1025·8	— 1·0	269·6	278·5	6th	257·7	247·4	2nd	263·7	263·5	+0·5	23	+ 17
462	Joshin	40 40	129 11	31·9	1017·1	1021·2	+ 0·4	275·4	282·0	21st	266·3	258·1	30th	270·9	270·6	+1·4	3	− 34
463	Yuki	42 20	130 24	65·6	1013·2	1021·7	+ 0·5	270·9	278·9	7th	262·6	254·2	28th, 29th	266·7	266·8	+0·2	0	− 11
464	Vladivostok	43 7	131 53	128	1004·6	1021·4	— 0·1	269·7	276·5	7th	260·5	249·8	29th	264·2	*263·8*	+0·6	32	+ 19
465	Ochiai	47 20	142 47	27·4	1008·1	1011·7	+ 0·3	269·1	279·0	8th	259·0	247·4	31st	264·1	264·5	+1·0	33	− 27
466	Nemuro	43 20	145 35	26·7	1009·8	1013·2	+ 2·1	275·4	282·8	8th	267·5	259·0	31st	271·5	271·9	+0·4	36	− 22
466a	ϕSyana	45 14	147 53	39·3	1006·0	1011·0	+ 2·4	274·2	282·3	9th	268·3	259·8	29th	271·3	271·3	+0·5	84	− 26
		N.	E															

Between Latitude 40° N. and 30° N. DECEMBER—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
508	35°—30° N. 145°—140° W.	††32 5	††142 14	§(31)	..	1024·0	+ 1·0	..	..	Sea Temp. 291·9 | +0·6	..	..	..	..	290·8	+2·2	..	..
512	San Francisco	37 48	122 26	47·2	1015·1	1020·6	+ 0·7	286·6	291·3	10th	280·6	278·6	28th	283·6	*283·3*	+0·3	49	− 67
	San Luis Obispo	35 18	120 39	61·3	1012·4	1020·0	— 0·1	291·9	299·7	24th	277·7	271·9	11th	284·8	*284·0*	+0·3	19	− 78
513	San Diego	32 43	117 10	26·5	1013·9	1016·9	— 0·8	291·7	296·9	2nd	282·6	278·0	12th	287·1	*286·9*	+1·0	42	− 4
514	Modena	37 48	113 54	1670	834·5	1020·6	— 0·2	276·9	286·3	6th	263·4	256·3	31st	270·2	*269·9*	−0·1	10	− 6
515	Santa Fé	35 41	105 57	2138	785·7	1019·3	— 0·8	276·2	284·7	7th	266·6	258·6	31st	271·4	*271·7*	−0·5	25	+ 6
516	Denver	39 45	105 0	1613	836·4	1019·6	+ 0·2	278·4	291·9	7th	265·9	248·0	31st	272·2	*272·7*	−0·6	24	+ 6
517	Abilene	32 23	99 40	530	957·2	1019·6	— 0·2	286·0	297·4	29th	276·1	264·1	31st	281·0	*280·4*	+0·5	49	+ 19
518	Saint Louis	38 38	90 12	173	997·2	1018·3	— 1·6	284·0	294·1	27th	275·8	261·3	31st	279·9	*279·5*	+4·9	84	+ 20
519	Mobile	30 41	88 2	17·4	1018·1	1020·0	— 0·5	291·1	296·3	31st	284·1	275·8	14th	287·6	*287·9*	+3·4	156	+ 32
520	Nashville	36 10	86 47	166	1000·0	1020·3	— 0·9	287·6	293·6	31st	277·8	267·4	14th	282·7	*282·9*	+4·6	110	+ 10
521	Charleston	32 47	79 56	14·6	1019·5	1021·3	+ 0·5	290·9	296·9	21st	282·8	273·6	15th	286·8	*286·8*	+3·2	99	+ 26
522	Washington	38 54	77 3	34·1	1014·5	1018·6	— 1·4	284·7	293·0	21st	275·7	267·4	15th	280·2	*280·0*	+4·8	71	− 11
523	Bermuda	32 17	64 46	46·0	1014·4	1019·9	+ 1·2	293·9	296·3	14th	288·3	285·8	27th	291·1	*290·8*	−0·5	64	− 58
524	Santa Cruz (Flores)	39 27	31 9	40	1021·0	1025·9	+ 6·3	290·8	293·7	5th	287·5	280·5	8th	289·2	*289·5*	+0·8	47	−143
525	ϕHorta	38 32	28 38	65	1019·2	1027·0	+ 6·7	290·3	292·7	2nd	286·5	284·6	7th	288·4	288·7	+0·1	50	− 73
525a	Ponta Delgada	37 44	25 40	22	1024·9	1027·5	+ 6·0	290·0	291·5	12th	286·7	284·5	8th	288·4	288·4	−0·1	..	..
526	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	61	− 64
527	Madeira (Funchal)	32 38	16 55	25	‡1024·0	‡1026·9	+ 5·3	292·2	298·0	14th	286·7	285·1	30th, 31st	289·5	*289·2*	0·0	0	− 82
528	Lisbon	38 43	9 9	95	1014·4	1026·1	+ 5·6	286·1	288·5	31st	280·6	277·8	13, 21, 26	283·4	283·2	−0·7	31	− 73
529	Melilla	35 17	2 59	40	1018·9	1023·8	+ 3·7	289·3	291·8	9th	280·6	276·0	22nd	284·9	*286·7*	−2·8	16	− 80
530	Gitraltar	36 6	5 21	16·2	..	1023·3	+ 3·2	288·8	292·4	31st	281·9	278·0	22nd	285·3	*285·1*	−1·0	10	−132
531	Colomb-Béchar	31 36	2 4	769	932·8	1023·5	..	288·7	293·8	29th	274·2	270·4	22nd	281·5	*280·1*	..	1	..
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 107 and 108. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 108,
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 107 and 108.

DECEMBER—ZONE 5 (Eastern Half).

Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	E.															
537	Palma	39 34	2 39	23	1015·1	1017·9	— 0·3	287·0	291·0	28th	280·3	275·8	17th, 18th	283·6	..	—1·0	40	— 16
538	Algiers (Bouzaréah)	36 47	3 2	344	978·7	1020·0	+ 1·2	284·4	287·7	9th	280·3	275·9	21st	282·4	*282·3*	—1·7	192	+ 45
539	ϕTunis	36 48	10 10	21	1012·4	1014·9	..	287·5	291·6	5th	280·4	274·2	22nd	284·0	*283·4*	—0·9	103	+ 6
539*a*	Malta	35 53	14 30	56·4	..	1014·4	— 1·9	288·9	293·0	1st	284·8	276·9	22nd	286·8	*286·3*	—0·6	103	+ 56
540	Riposto	37 41	15 14	14·2	..	1013·9	— 3·8	288·5	291·2	1st	282·3	276·0	23rd	285·4	*284·9*	—0·5	50	+ 5
541	Athens	37 58	23 43	107	999·8	1012·6	— 4·5	289·2	293·8	1st	282·5	275·4	31st	285·8	285·7	+2·2	71	— 4
542	ϕAlexandria	31 12	29 53	32·0	1014·3	1018·0	+ 0·1	295·1	299·5	3rd	285·9	281·4	28th	290·5	*290·0*	+0·9	62	..
543	Nicosia (P.W.D.)	35 9	33 22	159	996·8	1015·8	— 2·0	291·9	296·3	2nd	281·9	276·9	19th	286·9	..	+2·3	56	— 50
544	Beirut	33 54	35 28	33·7	..	1016·8	— 0·9	293·0	296·4	22nd	287·4	284·1	24th	290·2	*290·0*	+1·7	140	..
545	Hinaidi	33 17	44 29	32·3	..	1020·8	+ 0·2	291·7	296·3	1st	279·6	273·4	20th	285·7	*285·1*	..	23	— 23
546	Lenkoran	38 46	48 52	—20·0	1024·6	1022·2	— 0·2	..	295·7	23rd	277·8	273·5	20th	..	*280·3*	+0·9	70	+ 5
547	Tehran	35 41	51 25	1220	..	..	..	282·7	289·9	1st	273·6	270·3	20th, 21st	278·1	*277·6*	—0·7	37	— 13
548	Meshed	36 16	59 35	946	886·7	..	..	282·8	293·8	25th	267·4	261·9	12th, 13th	275·1	..	—1·6	5	..
549	Seistan	31 0	61 30	610	..	..	..	287·8	293·2	25th	272·3	265·2	13th	280·1	..	..	1	— 20
550	Quetta	30 11	67 3	1677	837·4	..	+ 0·7	285·3	288·7	18th	268·2	262·4	13th	276·7	*276·2*	—2·0	3	— 15
551	Peshawar	34 2	71 37	339	980·4	1021·6	— 0·1	292·8	296·4	10th	277·6	271·8	30th	285·2	*284·0*	+0·5	4	+ 2
551*a*	Lahore	31 34	74 20	214	993·7	1019·8	+ 0·3	294·0	296·4	10th	278·9	275·9	31st	286·5	*285·4*	—0·1	34	+ 25
552	Simla	31 7	77 8	2204	783·7	..	+ 0·9	282·5	285·9	11th	276·8	271·3	4th	279·7	*279·2*	—1·0	112	+ 80
552*a*	Leh	34 10	77 42	3503	668·1	..	+ 1·4	271·8	278·6	7th	260·8	253·0	30th	266·3	*265·2*	—2·5	5	..
559	Hankow	30 35	114 17	37·0	1024·2	1028·8	+ 0·6	284·0	290·6	19th	275·9	269·8	31st	279·9	*279·7*	+0·7	21	— 30
560	ϕTientsin	39 10	117 10	5·0	1027·1	1027·7	— 0·4	275·9	281·0	20th	267·3	260·1	29th	271·6	*271·4*	+0·6	14	+ 10
561	ϕShanghai (Zi-Ka-Wei)	31 12	121 26	7	..	1027·6	+ 1·7	284·5	291·9	20th	274·9	265·8	31st	279·7	278·9	+0·3	10	— 25
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1017·6	1026·3	+ 1·6	275·6	281·6	6th	267·7	257·6	29th	271·7	271·4	—0·7	33	+ 15
562*a*	Nagasaki	32 44	129 52	133	1007·5	1023·8	+ 1·8	283·7	288·5	6th	277·2	269·7	29th, 30th	280·5	280·6	—0·1	59	— 8
563	Kyoto	35 1	135 44	42·9	1016·2	1021·5	+ 2·0	284·9	291·9	8th	274·4	268·9	30th	279·7	278·9	+1·5	45	— 8
564	Tokyo	35 41	139 46	5·8	1018·2	1018·9	+ 2·5	283·7	290·9	8th	274·2	267·2	30th	278·9	278·6	+0·4	45	— 8
565	Kanayama	37 53	140 46	24·6	1015·6	1018·6	+ 2·7	281·1	290·0	8th	271·2	266·2	31st	276·1	275·6	—0·4	24	— 18
566	Miyako	39 38	141 59	30·4	1013·5	1017·3	+ 2·7	281·9	288·9	8th	270·2	262·2	30th	276·1	275·3	+0·1	20	— 18

DECEMBER—ZONE 6.

Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
601	Midway Island	28 15	177 22	5·8	..	1022·7	+ 6·3	295·3	298·0	4th	288·4	283·6	29th	291·9	*291·4*	..	12	..
605	Honolulu	21 19	157 52	11·6	1014·8	1016·1	— 0·2	297·9	300·2	..	293·3	290·8	..	295·6	*295·4*	+0·2	203	+ 96
614	La Paz	24 10	110 20	12	1013·1	1014·5	..	294·3	297·6	2nd	287·9	282·5	11th	291·1	..	..	149	..
615	Chihuahua	28 38	106 4	1423	859·2	1017·5	..	287·1	295·0	31st	275·7	268·0	13th	281·4	*282·4*	—0·8	43	..
616	ϕLeon	21 7	101 41	1809	824·1	1016·4	+ 1·6	296·6	300·8	28th	280·5	277·5	7th	288·5	*287·9*	+0·9	0	— 51
616*a*	ϕMonterry	25 40	100 18	528	956·6	1018·1	0·0	291·3	301·4	29th	283·3	275·0	15th	287·3	*287·0*	—0·8	59	— 16
617	Tulancingo	20 5	98 22	2181	790·5	..	..	293·4	298·0	31st	279·2	275·0	15th	286·3	*285·5*	+0·5	0	— 51
618	Galveston	29 18	94 50	16·5	1017·2	1019·3	— 0·9	290·6	295·2	9th	285·3	276·3	14th	287·9	*288·2*	+1·3	199	+ 96
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1019·6	— 0·7	292·7	298·6	30th	285·4	276·9	14th	289·1	*289·1*	+3·3	111	..
619	Merida, Yuc.	20 58	89 38	22	1014·3	1016·9	— 0·7	301·6	304·0	1st, 31st	292·1	290·2	27th, 28th	296·9	*296·3*	+0·8	17	..
620	Havana	23 8	82 21	24·3	..	1019·1	+ 1·0	299·8	303·1	31st	292·2	288·0	26th	296·0	*295·8*	+0·6	34	— 51
620*a*	Key West	24 33	81 48	6·7	1018·8	1019·3	+ 0·9	298·4	300·8	23rd	293·0	288·6	25th	295·7	*294·9*	+1·5	9	— 46
621	Nassau, Bahamas	25 5	77 21	7·3	..	‡1018·6	0·0	298·8	..	..	293·6	..	..	296·2	*296·1*	+0·6	22	— 46
622	Watling Island	24 6	74 26	33·5	1016·2	1020·1	+ 2·8	..	301	8th, 14th	..	292	23rd	..	*296·6*	..	..	..
633	Izaña	28 19	16 30	2367	769·3	..	..	280·8	284·4	11th	274·8	269·7	19th	277·8	*277·4*	+0·7	15	— 20
634	La Laguna	28 28	W16 20	547	957·1	1021·3	+ 2·5	288·6	292·8	15th	283·2	280·2	14th	285·9	*285·4*	—0·6	18	— 20
641	Siwa	29 12	E 25 29	— 23	1021·9	1019·1	..	293·7	298·0	13th	278·1	273·0	30th	285·9	..	..	0	— 13
642																		
643	Cairo (Helwan)	29 52	31 20	116	1005·0	1018·8	0·0	293·8	296·9	7th	283·4	279·0	28th	288·6	*288·5*	+1·1	1	— 20
643*a*	Aswan	24 2	32 53	99·6	1005·6	1017·5	+ 0·5	297·6	301·0	22nd	284·2	279·0	25th	290·9	*290·2*	+0·5	..	— 20
644	Tor	28 14	33 37	1·9	1017·0	1017·3	+ 0·3	296·0	300·2	22nd	284·9	278·9	30th	290·4	*289·6*	+1·2	0	— 20
647	Bushire	28 59	50 53	4·3	1019·5	1020·1	+ 0·8	293·8	297·7	3rd	286·3	283·4	27th	290·1	*289·7*	+0·7	85	+ 45
648	Jask	25 44	57 47	4·0	1019·6	1020·0	+ 1·4	298·1	300·1	24th	289·1	286·2	13th	293·6	*293·2*	—0·6	0	— 20
649	Karachi	24 53	66 57	4·0	984·6	1018·9	+ 0·5	298·8	301·5	1st	286·3	283·7	12th, 16th	292·6	*292·2*	—0·8	0	— 20
650	Jacobabad	28 17	68 29	56·7	1013·3	1020·4	+ 0·9	296·2	298·6	11th	278·9	273·4	13th	287·6	*286·8*	—1·2	0	— 20
651	Jaipur	26 56	75 52	436	968·7	1020·0	+ 0·4	296·8	301·1	21st	282·6	278·8	30th	289·7	*288·8*	—0·6	20	— 20
652	Nagpur	21 8	79 5	310	982·0	1018·0	+ 0·2	301·2	302·7	3rd	286·3	282·8	12th	293·7	*293·3*	+0·6	0	— 20
653	Allahabad	25 25	81 51	94·2	1008·4	1019·2	+ 1·1	297·9	302·4	4th	283·4	278·8	31st	290·7	*289·6*	+1·2	5	— 20
653*a*	Darjeeling	27 3	88 18	2265	778·4	..	+ 0·8	283·2	285·0	15th	276·3	274·1	31st	279·7	*279·2*	+0·6	0	— 20
654	Calcutta	22 36	88 23	6·4	1016·8	1017·6	+ 0·4	298·8	301·1	5th	287·0	282·5	31st	292·9	*292·3*	+0·8	5	— 20
655	Gauhati	26 8	91 41	59·7	1010·9	1018·3	— 0·3	298·0	299·7	2nd	284·2	281·5	20th	291·1	*290·5*	+0·5	10	+ 5
655*m*	Cherrapunji	25 15	91 42	1313	871·6	..	+ 0·6	290·5	293·2	5th	282·7	279·7	31st	286·6	*285·9*	+1·0	0	— 20
655*a*	Akyab	20 11	92 56	6·1	1014·7	1015·4	+ 0·1	299·6	302·5	5th	290·1	286·7	31st	294·8	*294·1*	—0·4	42	+ 17
656	Mandalay	21 59	96 0	76·2	1008·1	1017·0	+ 0·3	301·1	304·1	6th	289·1	286·9	24th	295·1	*294·4*	+0·3	32	+ 5
656*a*	Tengyueh	25 2	98 33	1626	838·1	1016·6	+ 1·8	290·4	292·4	28th	275·3	271·9	15th	282·9	*282·0*	+0·4	12	— 20
657	ϕPhu Lien	20 48	106 38	116	1006·3	1020·0	+ 1·0	295·1	299·4	6th	288·7	280·8	31st	291·9	291·4	+0·5	38	— 5
658	ϕMoncay	21 31	107 51	9·0	1019·6	1020·7	+ 1·2	293·7	300·5	7th	287·1	279·9	31st	290·4	*290·1*	+0·2	54	— 5
659	ϕHongkong	22 18	114 10	33·2	..	1020·6	+ 0·9	293·4	299·6	28th	288·9	281·9	31st	291·1	290·9	+0·8	8	— 46
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
661	Taihoku, Formosa	25 2	121 31	9·3	1021·4	1022·5	+ 1·8	294·3	301·1	12th	286·1	277·8	25th	290·2	289·6	—0·2	11	— 25
661*a*	Basco	20 28	121 59	18·7	..	1015·8	+ 1·6	297·6	301·1	10th	294·0	290·2	31st	295·8	*296·0*	+0·1	153	— 20
662	ϕNaha	26 13	127 41	10·5	1020·3	1021·6	+ 1·6	294·3	299·2	21st	287·6	281·0	25th	291·0	290·8	+0·3	102	— 20
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1017·9	1018·4	+ 1·2	295·6	300·4	11th	290·3	285·0	27th	292·9	292·7	+0·2	185	+ 56
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 109.
ϕ Change of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N.

DECEMBER—ZONE 7.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
715	Colima	19 12	103 45	‡498	957·2	1013·1	..	304·1	308·0	28th	290·2	287·1	6th	297·1	*295·8*	+1·4	9	..
716	Morelia	19 42	101 7	1923	811·6	1014·8	..	293·7	297·0	23rd	281·6	279·3	7th	287·7	*287·0*	+0·7	1	..
717	Mexico, Tacubaya	19 24	99 12	2309	775·5	..	— 0·1	294·7	297·6	30th	277·7	275·0	29th	286·2	285·6	+0·4	0	— 9
718	ϕSalina Cruz	16 12	95 12	56	1005·6	1012·0	— 1·8	302·4	304·6	2nd	294·9	293·0	19th	298·7	*298·9*	+0·7	8	+ 7
719	ϕSan Salvador	13 42	89 12	682	937·9	1014·0	+ 1·1	304·6	307·0	31st	288·5	286·0	30th	296·5	*294·6*	—0·8	14	+ 1
720	Belize	17 29	88 12	5·2	1014·5	1015·1	— 1·0	301·0	302·4	10, 12, 14	295·3	291·3	19th	298·2	*297·8*	+1·4	106	— 70
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·7	+ 0·7	303·2	304·9	8th	293·9	292·0	24th	298·6	*298·3*	+0·3	15	— 39
722	Port au Prince	18 33	72 20	37·4	1011·6	1015·9	+ 1·0	304·0	306·0	24th	293·2	291·4	22nd	298·6	*297·7*	—0·2	0	— 32
723	Caracas	10 30	66 56	1042	899·7	1014·9	+ 1·2	295·8	298·0	18, 24, 30	280·5	281·4	13th	291·2	*290·7*	—0·9	61	+ 16
724	Montserrat	16 41	62 9	36·6	1010·3	1014·5	— 0·1	300·9	302·4	2, 3, 4	295·2	292·4	3rd	298·1	*297·7*	—0·1	66	— 69
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·2	‡1013·1	+ 0·7	301·4	304·1	1st	295·7	293·6	14th	298·6	*298·0*	0·0	321	+133
725	Barbados	13 8	59 36	55·2	..	1013·0	— 0·2	300·7	302·6	19th	..	..	..	..	*297·1*	+0·1	132	+ 25
731	São Vicente, C. Verde Is.	16 54	25 4	11	1012·5	1013·7	— 0·9	299·1	300·5	10th, 20th	292·8	290·0	6th	295·9	*296·9*	+1·3	0	— 7
732	San Tiago, C. Verde Is.	14 54	23 31	34	1009·4	1013·3	— 1·3	300·1	301·7	19th	295·8	294·2	28th	297·9	*298·1*	+1·2	2	— 6
733	Bathurst	13 27	16 34	1·8	1013·7	1014·0	+ 0·5	302·7	305·2	9th	292·4	291·3	5th, 25th	297·5	*297·5*	+0·4	4	+ 2
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	307·2	309·1	19th, 20th	291·1	288·6	28, 29, 30	299·2	..	+0·8	3	+ 2
735	Niénébalé	12 57	7 20	300	..	..	..	306·7	309·0	20th	286·3	282·4	5th	296·5	..	..	0	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	..	..	..	..	..	..	..	..	..	..	..
737	ϕSokoto	13 2	E 5 14	353	..	..	..	307·5	310·2	9th	285·8	283·6	24th, 25th	296·7	*296·3*	—0·1	0	0
738	Kaduna Capital	10 32	7 25	637	944·8	1015·4	+ 0·8	305·5	307·4	9th, 22nd	..	..	..	..	‡*297·7*	+2·1	0	0
739	Hadejia	12 40	10 5	?	..	..	..	305·7	309·1	23rd	286·6	283·0	4th	296·1	*295·6*	+1·2	0	0
740	ϕMaiduguri	11 47	13 11	361	..	..	..	307·4	310·8	21st	286·1	283·6	26th, 27th	296·7	*296·3*	+0·4	0	0
741	El Fasher	13 32	25 18	730	..	..	..	?303·2	?306·4	31st	281·7	278·5	21st	?292·4	*?291·6*	..	0	..
743	El Obeid	13 11	30 14	569	948·6	1013·0	+ 0·1	303·7	306·2	31st	285·6	282·4	21st	294·6	*294·0*	+0·6	0	0
743*a*	ϕKhartoum	15 37	32 33	390	968·2	1011·9	— 0·7	303·9	306·8	10th	289·7	285·5	19th	296·8	*297·0*	+0·3	0	0
744	Port Sudan	19 37	37 13	5·5	1013·6	1014·3	+ 0·1	301·0	303·8	10th	294·7	291·4	20th	297·8	*297·3*	—0·1	49	+ 32
745	Berbera, Somaliland	10 22	45 2	9·5	1014·7	1015·9	— 0·2	304·9	306·9	sev. dates	292·1	289·1	6th, 17th	298·5	*298·6*	+0·1	3	+ 1
746	Aden	12 45	45 3	28·7	1013·3	1016·6	+ 0·2	301·2	302·4	27th	296·2	294·2	2nd	298·7	*298·3*	+0·6	2	— 1
751	Bombay	18 54	72 49	11·3	1012·9	1014·2	— 1·0	303·0	305·0	15th	294·7	291·4	25th	298·9	297·7	+0·7	0	— 1
752	Kodaikanal	10 14	77 28	2343	771·3	..	— 0·5	288·6	292·6	29th	282·5	280·2	24th	285·5	*285·0*	—0·1	250	+137
752*a*	Bangalore	12 59	77 38	921	912·8	1014·4	— 0·3	301·1	303·8	2nd	288·8	285·9	20th	294·9	*294·4*	+1·7	1	— 11
753	Madras	13 4	80 14	6·7	1013·9	1014·6	— 0·2	301·5	303·4	3rd	294·8	292·4	28th	298·1	*297·7*	+0·4	65	— 83
754	Vizagapatam	17 42	83 19	11·6	1015·2	1016·9	+ 0·3	300·2	301·8	1st	293·6	291·0	20th	296·9	*296·5*	+0·5	0	— 19
755	Port Blair	11 40	92 40	18·0	1010·0	1012·0	— 0·7	302·7	303·9	1st	299·1	296·8	23rd	300·9	*300·5*	+0·8	71	—105
756	Rangoon	16 46	95 48	5·5	1014·4	1015·1	+ 0·2	304·6	305·8	15th	293·8	290·8	23rd	299·2	*298·3*	+1·1	0	— 9
757	Saigon (Cap St. Jacques)	10 20	107 5	180	991·0	1011·6	+ 1·4	300·4	303·8	20th	295·2	293·6	26th	297·8	*297·4*	0·0	0	— 34
759	Nhatrang	12 15	109 12	3·6	1013·5	1013·9	+ 1·0	301·2	303·4	7th	294·7	291·6	26th	298·0	*297·6*	+0·6	149	— 69
759	Bolinao	16 23	119 53	7·1	..	1010·1	+ 0·3	303·5	305·4	18th	292·9	288·8	27th	298·2	*298·5*	—0·9	2	— 10
761	Vigan	17 34	120 23	12·2	..	1011·7	+ 0·8	303·7	307·3	18th	295·1	292·1	24th	299·4	299·0	—0·2	0	— 7
761*a*	Manila	14 35	120 59	14·2	..	1012·0	+ 0·9	303·7	305·9	6th	294·0	290·5	27th	298·9	297·8	—0·3	23	— 54
762	ϕOrmoc	11 0	124 36	5·6	..	1009·4	+ 1·0	305·1	306·9	2nd	295·2	292·3	26th	300·1	*299·4*	+0·9	76	—120
765	Guam, Ladrone Is.	13 24	144 38	18·6	..	1009·2	+ 0·5	302·5	304·0	24th	297·7	296·5	23rd, 26th	300·1	*299·7*	+0·1	42	— 87

Between Latitude 10° N. and 0°. DECEMBER—ZONE 8.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
		N.	W.															
805	Fanning Island	3 54	159 23	5·3	1009·4	1010·0	..	305·6	308·3	25th	298·3	296·3	9th	301·9	*301·4*	+1·3	266	+ 28
822	Colon	9 23	79 23	11·0	..	1011·0	+ 0·1	302·3	303·6	21st	297·7	295·2	15th	300·0	*299·6*	+0·4	130	—159
822*a*	Bogota	4 30	74 5	2645	744·6	..	..	290·8	293·1	3rd, 16th	282·7	281·1	29th	286·8	*286·2*	..	114	+ 47
823	Merida, Venez.	8 36	71 9	1641	‡841·2	..	— 0·2	296·1	299·0	23rd	287·3	286·0	3rd	291·7	*290·9*	+0·3	31	— 49
824	Ciudad Bolivar	8 9	63 33	38	1006·9	1011·2	..	303·9	305·6	1st	296·2	294·8	5th, 15th	300·0	*299·5*	..	119	+ 62
825	ϕEl Peru, Guayanavieja	7 19	61 49	220	984·9	1009·9	+ 0·2	301·9	303·4	11th, 12th	292·7	291·7	15th	297·3	*296·7*	—0·4	212	+103
825	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1011·6	— 0·1	302·2	304·1	3rd	296·6	294·1	13th	299·4	*298·8*	—0·2	675	+392
826*a*	Paramaribo	5 49	55 9	3·7	‡1012·8	‡1013·2	+ 1·1	303·5	305·7	11th	294·9	293·6	1st	299·2	*299·1*	+1·3	260	+ 40
826	Cayenne	4 56	52 21	6	..	..	..	305·5	310·0	11th	296·5	295·0	22nd	301·0	*300·4*	+2·1	90	—182
831	10°—5° N. 30°—25° W.	††7 32	††7 27	48 §(98-112)	..	1012·7	+ 0·9	..	..	Sea Temp. 299·7	+0·3	..	..	..	..	+0·5	..	..
832	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
833	Freetown, Sierra Leone	8 29	13 9	68·3	1003·7	1011·6	+ 0·7	305·1	306·3	13th, 16th	297·2	295·8	13, 19, 25	301·1	*300·1*	+0·7	5	— 31
835	Assuantsi	5 18	1 15	101	..	..	..	303·9	305·2	13th, 29th	294·2	293·0	14, 20, 25	299·1	*298·5*	..	55	— 13
836	ϕAccra	5 33	W 0 12	27·0	1007·6	1010·7	..	304·4	305·2	13, 21, 29	296·2	295·2	6th	300·3	*299·8*	+0·6	0	— 22
837	ϕLagos	6 27	E 3 24	4·6	1009·3	1009·8	— 0·2	305·3	306·3	29th	297·9	296·6	20th	301·6	*300·8*	+0·9	0	— 21
839	Zungeru	9 48	6 10	130	..	..	..	309·3	310·2	sev, dates	289·7	286·3	4th, 5th	299·5	*299·0*	+0·3	0	— 2
841	ϕYola	9 12	12 30	259	..	..	..	308·4	310·2	23rd	..	..	..	..	*‡298·8*	+0·1	0	0
841	Wau	7 42	28 3	440	..	..	..	..	..	..	292·9	288·1	31st	..	*†298·6*	+0·8	0	0
843	Malakal (Kodok)	9 35	31 37	394	..	..	..	?308·0	?310·3	11th	290·9	288·3	5th, 23rd	?299·9	..	+0·5	0	0
843*a*	Mongalla	5 11	31 47	439	959·2	1008·0	+ 0·2	306·7	309·8	29th	292·2	289·2	29th, 31st	299·4	*298·2*	—1·0	46	+ 38
844	ϕEntebbe	0 5	32 29	1171	883·4	1009·7	— 0·1	299·5	303·0	30th	290·1	286·3	31st	294·8	*294·0*	—0·1	125	— 4
845	Minicoy	8 17	72 49	2·1	1011·3	1011·5	— 1·5	..	..	..	..	..	..	..	..	..	372	+282
846	Cochin	9 58	76 21	2·7	1011·9	1012·3	— 0·6	304·6	307·1	28th	296

DECEMBER—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal.
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1008·6	1009·7	+ 0·4	303·6	304·4	23rd	298·3	297·4	2, 12, 15	300·9	*300·2*	0·0	19	— 1
924	ϕManaos	3 8	60 1	43·8	..	..	..	305·6	309·4	30th	296·0	294·2	7th	300·8	..	..	248	+ 46
926	Taperinha	2 30	54 20	20·0	1008·4	1010·8	+ 0·6	303·6	305·2	28th	295·3	293·3	1st	299·4	*298·6*	0·0	138	+ 17
927	ϕTuryassu	1 43	45 26	9·1	1008·9	1010·1	— 0·1	306·2	307·3	3rd, 30th	295·7	293·4	12th	301·0	*300·1*	+0·1	29	— 30
928	ϕBarra do Corda	5 30	45 16	81·0	999·5	1008·9	— 0·1	305·8	308·0	30th	294·6	291·6	20th	300·2	*299·0*	+0·2	87	— 25
929	Quixeramobim	5 16	39 15	207	987·9	1011·1	+ 0·5	306·7	307·8	17th	298·6	297·9	8th	302·6	*302·1*	+0·6	0	— 29
930	ϕFernando Noronha	3 50	32 25	106	1000·0	1011·8	0·0	301·7	302·4	24th	297·8	296·7	4th	299·8	*299·1*	+0·6	1	— 11
934	Ascension Island	7 56	W14 25	16·8	1011·5	1013·3	— 0·1	304·1	306·3	24th	296·1	294·7	3, 4, 20	300·1	*299·5*	+2·0	8	+ 4
939	Loanda	8 49	E 13 13	51	..	1011·3	+ 0·2	301·4	303·4	29th	296·6	295·3	17th	299·0	298·7	+0·8	57	+ 34
940	Brazzaville	4 17	15 16	321	977·4	1013·6	+ 1·9	303·5	308·0	22nd	294·3	292·0	1st	298·9	*298·2*	+0·1	411	+ 269
943	Masaka	0 21	31 47	?1280	..	..	..	304·8	305·8	31st	..	..	..	..	*292·6*	0·0	164	+ 80
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	..	..	..	..	..	..	..	..	..	39	+ 10
944*a*	Zanzibar	6 10	39 11	21·9	1010·8	1013·3	— 0·2	303·2	304·7	23rd	295·5	297·9	7th	301·3	*300·8*	+0·2	181	+ 40
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·9	304·7	20th, 25th	297·6	295·2	12th, 27th	300·2	*299·8*	—0·1	47	+ 20
947	Seychelles, Port Office	4 37	55 27	4·6	1010·7	1011·3	— 0·4	301·3	302·8	12th	298·6	297·1	4 days	299·9	*299·3*	+0·8	236	— 108
957	ϕPadang	0 56	100 22	6·7	1008·8	1009·6	— 1·1	..	..	..	..	..	..	..	..	..	365	—120
958	Batavia	6 11	106 50	8·0	1008·5	1009·4	— 0·1	302·9	305·3	1st	296·7	295·8	27th	299·8	299·2	+0·4	256	+ 41
958*a*	Pontianak	0 1	109 20	2·6	1010·1	1010·4	+ 0·7	..	..	..	..	..	..	..	..	..	239	— 96
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	52	—114
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	231	—104
962	Amboina	3 42	128 10	4·2	1007·9	1008·4	+ 0·1	..	..	..	..	..	..	..	..	..	163	+ 26
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	208	— 66
965	Daru	9 4	143 13	7·6	..	1008·9	0·0	305·3	..	..	299·2	..	..	302·2	*301·8*	+1·7	65	—140
966	ϕPort Moresby	9 29	147 9	39·0	..	1008·5	— 0·1	305·7	..	..	297·8	..	..	301·7	*301·2*	+0·6	48	— 52
967	Rabaul	4 9	152 12	20·7	..	1007·9	..	305·6	307·4	14th	295·5	293·6	7th	300·6	*300·0*	0·0	139	—102
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1008·9	1009·1	+ 1·8	305·2	306·2	18th	297·4	295·9	30th	301·3	*301·1*	+0·2	111	—153
970	Ocean Island	0 52	169 35	54·0	?1000·3	?1006·4	— 0·3	303·7	305·8	17th	296·5	294·7	6th	300·1	*299·4*	—0·8	402	+178
		S.	E.															

DECEMBER—ZONE 10.

Between Latitude 10° S. and 20° S.

		S.	W.															
1002	Apia, Samoa	13 48	171 46	2	..	1009·9	+ 1·6	303·2	305·2	16th	296·2	294·6	10th	299·7	299·1	—0·2	313	— 40
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	301·8	304·1	24th	294·4	292·4	25th, 26th	298·1	*297·9*	—1·1	381	+125
1021	ϕArequipa	16 22	71 33	2452	761·0	..	+ 0·6	293·3	295·8	29th	283·4	280·8	12th	288·3	*288·3*	+0·6	17	+ 8
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	283·9	282·0	sev. dates	..	*292·5*	..	0	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	727·7	..	..	294·2	298·5	3rd	284·0	280·5	9th	289·1	*288·8*	..	65	— 50
1025	ϕCorumba	18 59	57 39	116	995·5	1008·4	+ 1·0	307·7	311·4	27th	296·0	289·4	9th	301·8	*301·7*	+1·1	67	—104
1026	ϕCuyaba	15 36	56 6	165	990·8	1009·4	+ 1·1	306·9	310·0	18th	295·3	293·5	12th, 22nd	301·1	*299·8*	+0·7	184	— 27
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1028	Caetite	14 3	42 37	897	914·5	1012·3	+ 0·5	304·4	308·6	26th	290·1	287·7	23rd	297·2	*297·8*	+2·0	97	— 67
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1007·1	1012·4	+ 0·6	302·5	303·6	23rd	296·4	295·3	26th	299·4	*299·2*	+0·7	47	— 72
1030	ϕAracaju	10 55	37 3	6·1	1013·4	1014·2	+ 1·1	302·2	303·1	26th	296·3	292·8	26th	299·2	*299·4*	—0·3	17	— 29
1035	St. Helena	15 57	W 5 40	‡604	947·0	1015·8	+ 2·0	295·4	297·8	27th	286·2	285·0	4th	290·8	*290·8*	+1·0	38	— 12
1039	Moꜱamedes	15 12	E 12 9	12·5	876·9	1008·9	+ 0·5	300·8	305·6	9th	289·8	288·4	9th	295·3	..	+0·4	301	+ 45
1041	Livingstone	17 51	25 51	972	..	..	..	..	300·7	13th	..	291·3	9th, 31st	..	*295·5*	..	3	..
1041*a*	Elisabethville	11 39	27 28	1236	904·0	1008·1	..	306·4	310·7	8th	292·2	288·9	21st	299·3	..	..	37	— 46
1042	Gwelo	19 28	29 48	1417	861·1	1010·3	+ 0·4	303·7	307·9	6th	289·2	284·1	30th	296·4	..	+2·0	102	
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡852·0	‡1007·3	— 1·0	302·1	310·2	8th	286·1	282·7	26th	294·1	*293·2*	+0·2	200	+ 53
1044	Zomba	15 23	35 18	955	905·3	1009·0	— 0·2	300·7	307·4	1st	291·3	288·0	6th	296·0	*295·6*	+0·2	342	+ 60
1045	ϕAntananarivo	18 55	47 33	1375	862·7	1009·1	— 0·9	300·0	303·6	3rd, 6th	288·7	286·4	5th	294·3	293·6	+0·9	377	+ 40
1046	Tamatave	18 10	49 24	5	..	..	..	302·5	304·0	..	295·1	290·0	..	298·8	*298·3*	..	197	..
1047	Vohémar	13 21	50 1	3	..	..	..	305·7	307·3	..	296·8	296·0	..	301·2	*300·6*	..	202	..
1048	Antalaha	14 58	50 19	3	1010·3	1010·6	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1013·1	1013·6	+ 1·4	303·0	303·7	8th	297·9	296·4	30th	300·4	*300·0*	+0·4	46	— 66
1057	ϕChristmas Island	10 25	105 43	5·5	1007·2	1007·8	+ 0·1	304·2	306·3	5, 8, 13	297·5	296·3	sev. dates	300·8	*300·4*	+0·6	176	— 37
1061	Kupang	10 10	123 34	45·1	1003·8	1009·1	+ 0·8	304·5	307·0	12th	297·6	296·1	6th	301·0	300·4	+0·4	246	— 93
1061*a*	ϕDerby	17 18	123 40	16·2	1006·0	1008·0	+ 0·5	308·4	313·6	10th	300·1	297·8	5th	304·3	..	+0·5	20	+ 66
1062	ϕHall's Creek	18 13	127 46	373	966·4	1007·2	+ 0·1	309·1	312·8	8th	295·9	291·8	27th	302·5	*301·9*	—1·0	146	— 45
1063	Darwin	12 28	130 51	29·6	1004·8	1008·1	+ 1·4	306·1	309·3	7th	298·3	296·0	24th	302·2	*301·0*	—0·3	214	— 10
1064	Daly Waters	16 16	133 23	211	981·9	1005·1	— 0·7	309·6	314·7	1st	297·7	295·2	25th	303·6	*303·0*	—0·5	91	—124
1065	ϕMein	13 13	142 47	122	995·1	1008·6	+ 2·3	307·7	311·1	1st	296·3	294·2	3rd, 18th	302·0	..	+0·6	62	— 21
1066	ϕGeorgetown, Queensland	18 22	143 32	302	976·2	1009·4	+ 1·5	309·4	312·4	1st, 3rd	296·5	288·0	1st	302·9	..	+1·2	132	..
1066*a*	Willis Island	16 18	149 59	8·5	1009·1	1010·1	..	302·4	303·6	30th	298·3	295·8	9th	300·3	*299·9*	..	184	..
1067	Samarai	10 37	150 40	15·2	..	1008·1	— 0·5	303·6	..	..	297·1	..	..	300·3	*300·1*	—0·1	41	—106
1072	Suva, Fiji	18 8	178 26	6·1	1011·3	1011·9	+ 2·2	300·9	302·7	30th	295·1	292·6	19th	298·0	*297·8*	—1·1	202	—116
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112.
ϕ Change of normals, *see* pages 112 and 113.

DECEMBER—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal.
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	299·4	302·4	26th	294·1	291·3	1st	296·8	*296·6*	—1·1	153	— 25
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1011·9	1015·1	+ 0·3	292·0	293·4	9th, 18th	286·5	284·9	17th	289·3	*289·0*	+0·2	0	0
1122	Iquique	20 12	70 11	9	1013·2	1014·3	+ 0·1	296·3	299·2	17th	289·0	287·4	15th	292·7	*292·9*	+0·2	0	0
1123	Catamarca	28 27	65 47	510	950·0	1006·4	+ 0·4	305·6	311·4	1st	292·3	286·2	8th	298·9	298·1	—1·2	8	— 53
1124	Salta	24 46	65 28	1178	880·9	1008·4	+ 0·9	300·4	307·9	5th	289·2	284·7	10th	294·8	294·3	—0·6	150	+ 10
1125	Goya	29 9	59 15	26	1007·4	1010·4	+ 2·6	302·4	309·5	11th	292·0	280·3	8th	297·2	296·1	—1·7	385	+263
1126	Asuncion	25 17	57 41	93	999·0	1009·8	+ 1·0	308·2	314·3	15th	294·6	283·0	9th	301·4	300·5	+0·9	217	+ 60
1127	Curityba	25 25	49 17	908	912·9	1013·0	+ 1·0	300·9	307·3	5th	287·7	281·3	9th	294·3	*293·4*	+1·0	163	+ 21
1128	Rio de Janeiro	22 54	W43 10	33·0	1008·6	1012·4	+ 0·9	304·1	311·5	5th	294·9	289·4	9th	299·5	298·9	+1·3	‡149	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	304·5	308·5	26th	291·2	286·9	21st	297·8	*297·7*	+1·3	48	+ 2
1140	Kimberley	28 42	24 47	1202	879·7	1007·2	— 0·2	305·9	310·8	27th	289·2	284·2	2nd	297·6	297·6	+0·7	10	— 39
1141	Johannesburg	26 11	28 4	1806	821·3	1010·8	— 0·3	298·1	302·9	10th	285·6	280·8	30th	291·8	*291·4*	+0·4	59	— 79
1141*a*	Bulawayo	20 9	28 35	1340	867·0	1009·6	— 0·1	301·7	307·2	11th	289·0	285·7	30th	295·3	*294·8*	+0·2	38	— 93
1142	Durban	29 52	31 3	15·2	1014·4	1016·2	+ 0·7	299·2	310·6	1st	292·8	290·0	29th	296·0	*295·6*	—0·2	154	+ 24
1144	Lourenço Marques	25 58	32 30	59	..	1013·6	+ 0·3	301·3	313·4	11th	293·3	290·4	29th	297·3	296·9	—0·7	222	+121
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	290·0	288·8	..	..	..	..	40	..
1146	Fort Dauphin	25 2	46 58	25	..	1015·3	..	299·3	303·0	..	288·7	285·0	..	294·0	*293·3*	..	97	..
1147	Mauritius	20 6	57 33	55·2	1005·4	1011·7	— 2·3	304·9	307·5	16th	295·2	293·1	8th	300·1	299·5	+1·1	56	— 64
1159	Onslow	21 43	114 57	4·3	1006·1	1006·9	— 0·2	306·6	317·4	31st	292·3	289·0	16th	299·4	..	—2·3	0	— 3
1160	Cue	27 27	117 52	454	958·2	1007·8	— 0·2	308·8	312·9	11th, 20th	293·5	287·8	15th	301·1	..	—0·5	7	— 5
1161	ϕNullagine	21 53	120 5	386	963·3	1004·7	— 1·0	312·8	315·9	31st	295·4	290·2	18th	304·1	..	—0·4	19	— 15
1162	Laverton	28 40	122 23	466	957·8	1008·9	— 0·6	307·9	313·4	29th	292·5	287·6	9th	300·2	*300·0*	—0·2	32	+ 14
1163	Alice Springs	23 38	133 37	587	943·9	1007·9	— 0·3	305·3	311·6	1st	292·4	288·0	27th, 29th	298·9	*298·9*	—2·0	171	+131
1164	ϕWilliam Creek	28 55	136 21	76·2	1000·7	1009·5	— 0·5	308·2	314·7	31st	293·3	285·2	5th	300·8	*300·4*	+0·3	70	+ 60
1164*a*	Boulia	22 55	139 38	146	991·0	1007·0	+ 1·2	311·5	315·5	17th	297·9	290·7	2nd	304·7	*304·7*	+0·8	12	— 26
1165	Thargomindah	27 58	143 43	123	995·1	1008·6	+ 1·0	309·9	315·9	16th	295·4	290·3	6th	302·7	*302·3*	+0·7	59	+ 23
1166	Mitchell	26 32	147 52	336	973·0	1009·7	..	307·7	313·7	18th	293·8	286·6	8th	300·8	..	+1·6	55	— 9
1167	ϕRockhampton	23 24	150 30	11·3	1010·6	1011·9	+ 1·6	305·9	311·0	26th	295·8	293·0	5th	300·8	..	+0·6	87	— 30
1168	ϕBrisbane	27 28	153 2	41·8	1009·1	1013·8	+ 1·7	302·9	308·4	19th	294·5	291·8	31st	298·7	*297·9*	+1·0	74	— 52
1170	ϕNorfolk Island	29 4	167 59	15·2	1017·2	1018·9	+ 5·4	299·1	303·0	22nd, 23rd	292·6	289·7	27th	295·8	*295·4*	+1·6	110	+ 23
		S.	E.															

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

Between Latitude 30° S. and 40° S.

1268	ϕSydney	33 51	151 13	42·1	1007·3	1012·3	+ 0·5	299·6	309·8	15th	290·9	287·7	29th	295·2	*294·7*	+1·0	34	— 39
1268	ϕLord Howe Island	31 20	159 0	4·6	1015·2	1015·8	+ 1·8	298·8	301·6	17th	292·9	287·7	1st	295·9	..	+1·3	27	— 92
1271	Auckland	36 50	174 50	38·1	..	1018·3	+ 4·9	295·6	298·0	13th	288·7	283·3	27th	292·1	..	+1·4	51	— 21
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

Between Latitude 40° S. and 50° S.

DECEMBER—ZONE 13.

1301	Chatham Island	43 57	176 31	45·7	..	1008·3	..	..	..	..	..	..	..	..	..	..	34	— 26
1321	Isla Guafo	43 34	74 45	140	998·6	1015·5	+ 0·4	285·7	297·0	29th	281·6	278·0	4th	283·7	*283·5*	—0·6	50	— 14
1323	Punta Galera	40 1	73 44	40	1012·3	1017·1	+ 0·4	288·0	291·4	23rd	282·7	280·0	16th, 19th	285·3	*285·6*	—0·6	73	— 12
1324	Sarmiento	45 30	69 0	274	976·2	1006·8	— 0·7	296·0	308·2	30th	281·6	273·9	7th	288·8	288·3	—1·0	12	+ 7
1365	Puerto Madryn	42 49	W64 58	14	1006·8	1008·2	— 0·5	297·9	304·4	23rd	283·1	275·5	7th	290·5	290·1	—1·3	23	+ 13
1366	Launceston	41 27	E147 10	10·1	1007·7	1008·9	— 0·2	294·3	304·0	30th	283·2	278·0	20th	288·8	*288·0*	—0·7	54	+ 3
1366	ϕHobart	42 53	147 20	53·9	1001·7	1008·2	— 1·2	293·3	304·3	30th	283·7	276·6	24th	288·5	*287·7*	—0·2	55	+ 4
1370	Invercargill	46 25	168 21	3·7	..	..	..	292·2	301·9	7th	281·4	276·9	20, 21, 26	286·8	..	+0·9	78	— 29
1371	Dunedin	45 52	170 31	91·4	..	1008·7	— 0·2	293·7	301·9	3rd	283·4	277·4	25th	288·5	..	+2·0	48	— 41
1371*a*	Christchurch	43 31	172 39	7·6	..	1010·4	+ 1·0	296·8	305·6	17th	284·1	278·2	26th	290·5	..	+1·8	58	+ 6
1372	Wellington	41 16	174 46	3·0	..	1014·5	+ 3·0	293·8	297·1	7th	287·2	281·7	21st	290·5	..	+1·7	46	— 36
		S. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" pages 113 and 114.
ϕ Change of normals *see* pages 113 and 114.

DECEMBER—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	1008·6	1009·7	+ 0·4	303·6	304·4	23rd	298·3	297·4	2, 12, 15	300·9	*300·2*	0·0	19	— 1
924	ϕManaos	3 8	60 1	43·8	..	..	..	305·6	309·4	30th	296·0	294·2	7th	300·8	..	..	248	+ 46
926	Taperinha	2 30	54 20	20·0	1008·4	1010·8	+ 0·6	303·6	305·2	28th	295·3	293·3	1st	299·4	*298·6*	0·0	138	+ 17
927	ϕTuryassu	1 43	45 26	9·1	1008·9	1010·1	— 0·1	306·2	307·3	3rd, 30th	295·7	293·4	12th	301·0	*300·1*	+0·1	29	— 30
928	ϕBarra do Corda	5 30	45 16	81·0	999·5	1008·9	— 0·1	305·8	308·0	30th	294·6	291·6	20th	300·2	*299·0*	+0·2	87	— 28
929	Quixeramobim	5 16	39 15	207	987·9	1011·1	+ 0·5	306·7	307·8	17th	298·6	297·9	8th	302·6	*302·1*	+0·6	0	— 29
930	ϕFernando Noronha	3 50	32 25	106	1000·0	1011·8	0·0	301·7	302·4	24th	297·8	296·7	4th	299·8	*299·1*	+0·6	1	— 11
934	Ascension Island	7 56	W14 25	16·8	1011·5	1013·3	— 0·1	304·1	306·3	24th	296·1	294·7	3, 4, 20	300·1	*299·5*	+2·0	8	+ 4
939	Loanda	8 49	E 13 13	51	..	1011·3	+ 0·2	301·4	303·4	29th	296·6	295·3	17th	299·0	298·7	+0·8	57	+ 34
940	Brazzaville	4 17	15 16	321	977·4	1013·6	+ 1·9	303·5	308·0	22nd	294·3	292·0	1st	298·9	*298·2*	+0·1	411	+269
943	Masaka	0 21	31 47	?1280	..	..	..	304·8	305·8	31st	..	..	..	..	*292·6*	0·0	164	+ 80
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	..	..	..	..	..	..	..	..	..	39	— 16
944*a*	Zanzibar	6 10	39 11	21·9	1010·8	1013·3	— 0·2	303·2	304·7	23rd	299·5	297·9	7th	301·3	*300·8*	+0·2	181	+ 46
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·9	304·7	20th, 25th	297·6	295·2	12th, 27th	300·2	*299·8*	—0·1	47	+ 26
947	Seychelles, Port Office	4 37	55 27	4·6	1010·7	1011·3	— 0·4	301·3	302·8	12th	298·6	297·1	4 days	299·9	*299·3*	+0·8	236	—108
957	ϕPadang	0 56	100 22	6·7	1008·8	1009·6	— 1·1	..	..	..	..	..	..	..	..	..	365	—120
958	Batavia	6 11	106 50	8·0	1008·5	1009·4	— 0·1	302·9	305·3	1st	296·7	295·8	27th	299·8	299·2	+0·4	256	+ 41
958*a*	Pontianak	0 1	109 20	2·6	1010·1	1010·4	+ 0·7	..	..	..	..	..	..	..	..	..	239	— 96
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	52	—114
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	231	—164
962	Amboina	3 42	128 10	4·2	1007·9	1008·4	+ 0·1	..	..	..	..	..	..	..	..	..	163	+ 26
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	208	— 66
965	Daru	9 4	143 13	7·6	..	1008·9	0·0	305·3	..	..	299·2	..	..	302·2	*301·8*	+1·7	65	—140
966	ϕPort Moresby	9 29	147 9	39·0	..	1008·5	— 0·1	305·7	..	..	297·8	..	..	301·7	*301·2*	+0·6	48	— 57
967	Rabaul	4 9	152 12	20·7	..	1007·9	..	305·6	307·4	14th	295·5	293·6	7th	300·6	*300·0*	0·0	139	—102
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	1008·9	1009·1	+ 1·8	305·2	306·2	18th	297·4	295·9	30th	301·3	*301·1*	+0·2	111	—153
970	Ocean Island	0 52	169 35	54·0	?1000·3	?1006·4	— 0·3	303·7	305·8	17th	296·5	294·7	6th	300·1	*299·4*	—0·8	402	+176
		S.	E.															

DECEMBER—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ E.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1043	ϕ[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1046	Tamatave	18 10	49 24	5	..	..	..	305·7	307·3	..	296·8	296·0	..	301·2	*300·0*	..	202	..
1047	Vohémar	13 21	50 1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	— 66
1048	Antalaha	14 58	50 19	3	1010·3	1010·6	..	..	..	..	..	..	..	..	..	..	..	— 39
1055	Cocos Keeling Is.	12 5	96 53	4·6	1013·1	1013·6	+ 1·4	303·0	303·7	8th	297·9	296·4	30th	300·4	*300·0*	+0·4	46	— 7
1057	ϕChristmas Island	10 25	105 43	5·5	1007·2	1007·8	+ 0·1	304·2	306·3	5, 8, 13	297·5	296·3	sev. dates	300·8	*300·4*	+0·6	176	— 98
1061	Kupang	10 10	123 34	45·1	1003·8	1009·1	+ 0·8	304·5	307·0	12th	297·6	296·1	6th	301·0	300·4	+0·4	246	— 7
1061*a*	ϕDerby	17 18	123 40	16·2	1006·0	1008·0	+ 0·5	308·4	313·6	10th	300·1	297·8	5th	304·3	..	+0·5	20	+ 62
1062	ϕHall's Creek	18 13	127 46	373	966·4	1007·2	+ 0·1	309·1	312·8	8th	295·9	291·8	27th	302·5	*301·9*	—1·0	146	+ 43
1063	Darwin	12 28	130 51	29·6	1004·8	1008·1	+ 1·4	306·1	309·3	7th	298·3	296·0	24th	302·2	*301·0*	—0·3	214	— 10
1064	Daly Waters	16 16	133 23	211	981·9	1005·1	— 0·7	309·6	314·7	1st	297·7	295·2	25th	303·6	*303·0*	—0·5	91	—124
1065	ϕMein	13 13	142 47	122	995·1	1008·6	+ 2·3	307·7	311·1	1st	296·3	294·2	3rd, 18th	302·0	..	+0·6	62	— 21
1066	ϕGeorgetown, Queensland	18 22	143 32	302	976·2	1009·4	+ 1·5	309·4	312·4	1st, 3rd	296·5	288·0	1st	302·9	..	+1·2	132	..
1066*a*	Willis Island	16 18	149 59	8·5	1009·1	1010·1	..	302·4	303·6	30th	298·3	295·8	9th	300·3	*299·9*	..	184	—106
1067	Samarai	10 37	150 40	15·2	..	1008·1	— 0·5	303·6	..	..	297·1	..	..	300·3	*300·1*	—0·1	41	—110
1072	Suva, Fiji	18 8	178 26	6·1	1011·3	1011·9	+ 2·2	300·9	302·7	30th	295·1	292·6	19th	298·0	*297·8*	—1·1	202	+176
		S. ° ,	E. ° ,	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112. ϕ Change of normals, *see* pages 112 and 113.

Errata. (To be inserted over p. 94.)

The following figures should be substituted for those given for stations 1039, 1041 and 1041*a* on page 94:—

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal.	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B.	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1041	Livingstone	17 51	25 51	972	904·0	1008·1	..	306·4	310·7	8th	292·2	288·9	21st	299·3	..	..	37	..
1041*a*	Elisabethville	11 39	27 28	1236	876·9	1008·9	+ 0·5	300·8	305·6	9th	289·8	288·4	9th	295·3	..	+0·4	301	+ 45

* For formulæ employed *see* pages 112 and 113. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 112. ϕ Change of normals, *see* pages 112 and 113.

DECEMBER—ZONE 11.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	299·4	302·4	26th	294·1	291·3	1st	296·8	*296·6*	—1·1	153	— 25
1121	Punta Tortuga, Coquimbo.	29 56	71 21	27	1011·9	1015·1	+ 0·3	292·0	293·4	9th, 18th	286·5	284·9	17th	289·3	*289·0*	+0·2	0	0
1122	Iquique	20 12	70 11	9	1013·2	1014·3	+ 0·1	296·3	299·2	17th	289·0	287·4	15th	292·7	*292·9*	+0·2	0	0
1123	Catamarca	28 27	65 47	510	950·0	1006·4	+ 0·4	305·6	311·4	1st	292·3	286·2	8th	298·9	298·1	—1·2	8	— 53
1124	Salta	24 46	65 28	1178	880·9	1008·4	+ 0·9	300·4	307·9	5th	289·2	284·7	10th	294·8	294·3	—0·6	150	+ 10
1125	Goya	29 9	59 15	26	1007·4	1010·4	+ 2·6	302·4	309·5	11th	292·0	280·3	8th	297·2	296·1	—1·7	385	+263
1126	Asuncion	25 17	57 41	93	999·0	1009·8	+ 1·0	308·2	314·3	15th	294·6	283·0	9th	301·4	300·5	+0·9	217	+ 60
1127	Curityba	25 25	49 17	908	912·9	1013·0	+ 1·0	300·9	307·3	5th	287·7	281·3	9th	294·3	*293·4*	+1·0	163	+ 21
1128	Rio de Janeiro	22 54	W43 10	33·0	1008·6	1012·4	+ 0·9	304·1	311·5	5th	294·9	289·4	9th	299·5	298·9	+1·3	‡149	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	304·5	308·5	26th	291·2	286·9	21st	297·8	*297·7*	+1·3	48	+ 2
1140	Kimberley	28 42	24 47	1202	879·7	1007·2	— 0·2	305·9	310·8	27th	289·2	284·2	2nd	297·6	297·6	+0·7	10	— 39
1141	Johannesburg	26 11	28 4	1806	821·3	1010·8	— 0·3	298·1	302·9	10th	285·6	280·8	30th	291·8	*291·4*	+0·4	59	— 79
1142	Bulawayo	20 9	28 35	1340	867·0	1009·6	— 0·1	301·7	307·2	11th	289·0	285·7	30th	295·3	*294·8*	+0·2	38	— 93
1143	Durban	29 52	31 3	15·2	1014·4	1016·2	+ 0·7	299·2	310·6	1st	292·8	290·0	29th	296·0	*295·6*	—0·2	154	+ 24
1144	Lourenço Marques	25 58	32 30	59	..	1013·6	+ 0·3	301·3	313·4	11th	293·3	290·4	29th	297·3	296·9	—0·7	222	+121
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1146	Fort Dauphin	25 2	46 58	25	..	1015·3	..	299·3	303·0	..	288·7	285·0	..	294·0	*293·3*	..	40	..
1147	Mauritius	20 6	57 33	55·2	1005·4	1011·7	— 2·3	304·9	307·5	16th	295·2	293·1	8th	300·1	299·5	+1·1	97	..
1159	Onslow	21 43	114 57	4·3	1006·1	1006·9	— 0·2	306·6	317·4	31st	292·3	289·0	16th	299·4	..	—2·3	56	— 64
1160	Cue	27 27	117 52	454	958·2	1007·8	— 0·2	308·8	312·9	11th, 20th	293·5	287·8	15th	301·1	..	—0·5	0	— 3
1161	ϕNullagine	21 53	120 5	386	963·3	1004·7	— 1·0	312·8	315·9	31st	295·4	290·2	18th	304·1	..	—0·4	7	— 5
1162	Laverton	28 40	122 23	466	957·8	1008·9	— 0·6	307·9	313·4	29th	292·5	287·6	9th	300·2	*300·0*	—0·2	19	— 15
1163	Alice Springs	23 38	133 37	587	943·9	1007·9	— 0·3	305·3	311·6	1st	292·4	288·0	27th, 29th	298·9	*298·9*	—2·0	32	+ 14
1164	ϕWilliam Creek	28 55	136 21	76·2	1000·7	1009·5	— 0·5	308·2	314·7	31st	293·3	285·2	5th	300·8	*300·4*	+0·3	171	+131
1164*a*	Boulia	22 55	139 38	146	991·0	1007·0	+ 1·2	311·5	315·5	17th	297·9	290·7	2nd	304·7	*304·7*	+0·8	70	+ 60
1165	Thargomindah	27 58	143 43	123	995·1	1008·6	+ 1·0	309·9	315·9	16th	295·4	290·3	6th	302·7	*302·3*	+0·7	12	— 26
1166	Mitchell	26 32	147 52	336	973·0	1009·7	..	307·7	313·7	18th	293·8	286·6	8th	300·8	..	+1·6	59	+ 23
1167	ϕRockhampton	23 24	150 30	11·3	1010·6	1011·9	+ 1·6	305·9	311·0	26th	295·8	293·0	5th	300·8	..	+0·6	55	— 9
1168	ϕBrisbane	27 28	153 2	41·8	1009·1	1013·8	+ 1·7	302·9	308·4	19th	294·5	291·8	31st	298·7	*297·9*	+1·0	87	— 30
1170	ϕNorfolk Island	29 4	167 59	15·2	1017·2	1018·9	+ 5·4	299·1	303·0	22nd, 23rd	292·6	289·7	27th	295·8	*295·4*	+1·6	74	— 52
		S.	E.														110	+ 23

Between Latitude 30° S. and 40° S.

DECEMBER—ZONE 12.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1221	Juan Fernandez	33 37	78 50	345	..	..	..	289·8	295·2	31st	283·9	281·9	7th	286·9	*286·6*	..	33	..
1221*a*	Punta Tumbes	36 37	73 6	120	1001·9	1016·3	+ 0·3	289·7	292·0	sev. dates	283·3	281·0	16th	286·5	*286·8*	—0·8	16	+ 5
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1010·6	1015·5	+ 0·7	294·4	300·6	24th	285·0	282·3	18th	289·7	*289·4*	—0·8	3	— 2
1222*a*	Santiago	33 27	70 42	520	953·9	1013·5	+ 0·6	299·5	305·2	24th	282·6	277·4	18th	291·1	*290·2*	—1·5	0	— 5
1223	Cordoba	31 25	64 12	423	962·2	1010·0	+ 1·1	302·5	309·4	26th	288·0	277·5	8th	295·3	294·7	—0·7	94	— 24
1224	Bahia Blanca	38 45	62 15	25	1008·0	1011·0	+ 0·7	299·4	308·0	26th	285·7	279·5	7th	292·5	292·4	—2·3	43	— 10
1225	Buenos Ayres (Chacarita)	34 36	58 22	25	1009·9	1012·8	+ 1·5	298·4	304·5	24th	287·5	276·7	8th	292·9	293·2	—1·4	101	+ 3
1226	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1012·7	+ 1·1	..	302·4	23rd	..	283·1	9th	..	*292·8*	—1·1	108	+ 15
1226*a*	ϕPorto Alegre	30 2	W51 13	23·5	1010·0	1012·7	+ 1·2	300·2	308·7	18th	290·3	282·5	9th	295·3	295·0	—1·0	171	+ 65
1239	ϕCape Town	33 56	E 18 29	12·2	..	1014·9	+ 0·6	298·9	304·2	20th	289·0	283·4	7th	293·9	*292·6*	+1·0	5	— 16
1240	Danger Point	34 37	19 18	27·7	1012·6	1015·9	..	294·8	298·6	3rd	287·6	284·7	13th, 15th	291·2	..	0·0	11	— 2
1241	Riversdale	34 6	21 16	‡1100	..	..	..	..	..	..	..	..	..	..	..	..	4	— 27
1242	East London	33 2	27 55	44·8	..	1015·1	+ 1·6	297·4	301·3	6th	290·1	286·9	3rd, 12th	293·8	..	+0·5	201	+145
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1005·7	1012·9	— 0·5	299·9	307·7	20th	288·4	284·7	31st	294·2	*293·9*	—0·4	22	+ 8
1260	Katanning	33 42	117 35	310	978·5	1014·2	+ 1·0	299·8	306·8	11th	283·8	278·1	18th	291·8	..	—1·6	4	— 10
1261	Coolgardie	30 57	121 10	423	963·2	1010·6	— 0·4	304·3	310·9	12th, 28th	288·1	282·7	26th	296·2	*296·0*	—1·1	12	— 6
1262	Eucla	31 45	128 58	4·6	1011·2	1011·8	— 1·2	296·2	316·9	28th	289·0	281·3	2nd	292·6	*292·0*	—1·0	80	+ 60
1263	Streaky Bay	32 48	134 13	13·1	1010·8	1012·3	— 1·4	301·1	312·4	8th, 29th	288·4	282·0	6th	294·8	*294·0*	+0·5	38	+ 28
1264	ϕAdelaide	34 56	138 35	42·7	1007·7	1012·0	— 0·5	301·2	314·2	30th	288·4	281·8	20th	294·8	*294·3*	+0·1	69	+ 44
1265	ϕMelbourne	37 49	144 58	35·1	1008·4	1012·5	0·0	296·6	310·6	30th	286·4	281·9	7th	291·5	*291·2*	+0·3	80	+ 22
1266	Bourke	30 13	145 58	110	1000·7	1013·1	+ 0·6	310·8	316·9	16th	294·2	286·9	6th	302·5	..	+1·3	97	+ 66
1267	ϕSydney	33 51	151 13	42·1	1007·3	1012·3	+ 0·5	299·6	309·8	15th	290·9	287·7	29th	295·2	*294·7*	+1·0	34	— 39
1268	ϕLord Howe Island	31 20	159 0	4·6	1015·2	1015·8	+ 1·8	298·8	301·6	17th	292·9	287·7	1st	295·9	..	+1·3	27	— 92
1271	Auckland	36 50	174 50	38·1	..	1018·3	+ 4·9	295·6	298·0	13th	288·7	283·3	27th	292·1	..	+1·4	51	— 21
1272	Napier	39 32	176 53	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		S.	E.															

Between Latitude 40° S. and 50° S.

DECEMBER—ZONE 13.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1008·3	..	..	..	..	..	..	..	..	..	..	34	— 26
1321	Isla Guafo	43 34	74 45	140	998·6	1015·5	+ 0·4	285·7	297·0	29th	281·6	278·0	4th	283·7	*283·5*	—0·6	50	— 14
1322	Punta Galera	40 1	73 44	40	1012·3	1017·1	+ 0·4	288·0	291·4	23rd	282·7	280·0	16th, 19th	285·3	*285·6*	—0·6	73	— 12
1323	Sarmiento	45 30	69 0	274	976·2	1006·8	— 0·7	296·0	308·2	30th	281·6	273·9	7th	288·8	288·3	—1·0	12	+ 7
1324	Puerto Madryn	42 49	W64 58	14	1006·8	1008·2	— 0·5	297·9	304·4	23rd	283·1	275·5	7th	290·5	290·1	—1·3	23	+ 13
1365	Launceston	41 27	E147 10	10·1	1007·7	1008·9	— 0·2	294·3	304·0	30th	283·2	278·0	20th	288·8	*288·0*	—0·7	54	+ 3
1366	ϕHobart	42 53	147 20	53·9	1001·7	1008·2	— 1·2	293·3	304·3	30th	283·7	276·6	24th	288·5	*287·7*	—0·2	55	+ 4
1370	Invercargill	46 25	168 21	3·7	..	..	..	292·2	301·9	7th	281·4	276·9	20, 21, 26	286·8	..	+0·9	78	— 29
1371	Dunedin	45 52	170 31	91·4	..	1008·7	— 0·2	293·7	301·9	3rd	283·4	277·4	25th	288·5	..	+2·0	48	— 41
1371*a*	Christchurch	43 31	172 39	7·6	..	1010·4	+ 1·0	296·8	305·6	17th	284·1	278·2	26th	290·5	..	+1·8	58	+ 6
1372	Wellington	41 16	174 46	3·0	..	1014·5	+ 3·0	293·8	297·1	7th	287·2	281·7	21st	290·5	..	+1·7	46	— 36
		S. ° ,	E. ° ,	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 113 and 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks" pages 113 and 114. ϕ Change of normals *see* pages 113 and 114.

DECEMBER—ZONE 14. Table representing the Meteorology of the Globe between Latitude 50° S. and 60° S.*

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	999·4	1006·1	+ 4·4	281·3	283·2	30th	278·4	276·2	14th	279·9	*279·8*	—0·7	189	— 66
1422	Puerto de Punta Arenas	53 10	70 54	28	998·8	1002·2	+ 2·9	285·5	293·1	30th	279·3	276·1	17th	282·4	*282·6*	—0·6	0	— 33
1423	Punta Dungeness	52 24	68 26	5	1000·6	1001·2	+ 0·7	287·3	291·6	30th	279·1	276·6	8th	283·2	*282·2*	—1·3	58	+ 31
1424	Santa Cruz	50 11	68 21	12	1001·9	1002·8	+ 1·1	291·3	297·6	30th	280·4	275·2	6th	285·9	285·5	—1·0	25	+ 4
14244	‡Año Nuevo	54 39	64 8	50	993·1	999·2	+ 2·9	283·4	288·0	13th, 30th	277·9	273·4	17th	280·7	*280·0*	—0·4	71	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	999·1	..	283·3	289·1	23rd	276·8	273·0	8th	280·1	..	..	55	— 10
1426	Cape Pembroke	51 41	57 42	21·3	996·1	998·7	— 1·1	281·9	285·8	13th	276·6	273·0	5th	279·3	279·8	—1·5	..	..
1429	S. Georgia(Cumberland Bay)	54 14 S.	36 33 W.	4	985·8	986·3	— 9·0	278·8	286·2	14th	271·4	268·5	3rd	275·1	*275·8*	—1·0	55	— 20

DECEMBER—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	60 44 S.	44 39 W.	7	983·9	984·8	— 8·7	272·5	274·8	23rd	268·6	259·8	2nd	270·5	270·7	—1·5	22	— 1
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

DAILY OBSERVATIONS OF WIND WITHIN THE TROPICS—DECEMBER 1923.

Date.	St Helena. 1035. Direction.	St Helena. 1035. ††Mean Velocity for the Day.	Fanning Island. 805. Direction and Force (Beaufort).	Sierra Leone. 834. Direction and Force (Beaufort).	Entebbe. 844. Direction and Force (Beaufort).	Malden Island. 905. Direction and Force (Beaufort).	Tulagi. 969. Direction and Force (Beaufort).	Ocean Island. 970. Direction and Force (Beaufort).	Suva, Fiji. 1072. Direction and Force (Beaufort).
	9h.	m/s.	9h.	9h. 17h.	7h. 21h.	9h. 20h.	9h.	8h. 20h.	9h.
1	SE	4·5	SE 3	SW 1 SW 2	E 1 Calm 0	NE 2 NE 2	Calm 0	NW 2 SW 3	ESE 5
2	SE	3·5	E 4	N 2 W 1	Calm 0 Calm 0	NE 2 EbyN 2	SE 2	WSW 2 Calm 0	E 4
3	Calm	1·8	ESE 3	Calm 0 W 1	NW 1 Calm 0	E 1 EbyS 2	SE 1	WNW 3 NW 3	E 4
4	SE	5·1	SE 3	NE 3 SW 1	Calm 0 SW 1	SE 2 SE 2	SE 1	WNW 3 WNW 6	SE 5
5	SE	6·4	SE 3	Calm 0 Calm 0	NW 1 SW 1	EbyS 2 E 3	Calm 0	WNW 4 NW 4	E 5
6	SE	9·3	SE 4	NE 1 SW 2	NW 1 SW 2	EbyN 2 NE 3	Calm 0	Calm 0 WNW 3	SE 5
7	SSE	9·5	SE 3	W 1 W 1	W 1 Calm 0	ENE 2 ENE 1	Calm 0	W 3 Calm 0	E 3
8	SE	10·0	SSE 1	SW 2 SW 1	N 1 N 1	EbyS 2 E 2	Calm 0	WSW 3 Calm 0	SE 3
9	SE	7·9	SSE 3	NW 3 SW 1	NW 1 Calm 0	EbyN 2 E 1	Calm 0	NNW 3 N 1	SE 2
10	SE	7·4	SE 4	Calm 0 SW 1	N 2 Calm 0	EbyN 1 EbyN 2	SE 2	N 2 N 2	E 4
11	SE	5·1	SE 3	ENE 1 SW 1	W 2 W 1	EbyN 2 NE 2	SE 2	Calm 0 N 1	E 3
12	SE	3·2	NE 2	NNW 1 WSW 2	S 2 Calm 0	NNE 1 NE 1	SE 2	NW 2 Calm 0	E 3
13	SE	2·3	SE 3	Calm 0 SW 2	W 1 Calm 0	EbyN 2 EbyS 2	SE 2	NE 1 NE 2	E 5
14	SE	4·4	SE 3	Calm 0 SW 1	Calm 0 Calm 0	E 2 E 2	SE 1	NE 2 Calm 0	E 4
15	SSE	8·0	SE 2	WSW 1 SW 1	N 1 Calm 0	E 1 E 2	SE 1	E 2 NE 4	NNE 4
16	SE	8·9	SE 4	E 2 Calm 0	Calm 0 SW 1	EbyS 3 EbyS 3	SE 2	E 4 ENE 1	SE 5
17	SSE	3·8	SE 3	Calm 0 W 2	SW 2 Calm 0	EbyS 2 E 1	SE 2	E 3 ENE 3	NE 2
18	SE	3·2	SE 3	SSW 2 WSW 1	NW 2 Calm 0	E 1 E 1	Calm 0	Calm 0 NE 3	NE 2
19	Calm	0·9	SE 3	Calm 0 SW 3	Calm 0 Calm 0	E 1 E 1	SE 2	NE 1 NE 1	E 3
20	SE	1·7	NE 3	ENE 2 SW 1	Calm 0 SW 2	E 1 EbyS 1	SE 2	NE 1 SW 2	ESE 3
21	SE	2·8	ESE 3	ENE 2 Calm 0	W 1 Calm 0	ESE 1 SE 1	SE 2	NE 2 NE 1	ENE 5
22	SE	3·4	SE 4	E 2 SW 2	NW 1 SW 1	ESE 2 E 1	SE 2	NE 1 NE 1	ESE 3
23	SE	4·5	SSE 3	ENE 2 Calm 0	N 1 Calm 0	EbyS 2 EbyN 1	SE 2	E 3 NNE 3	E 3
24	SE	6·1	SSE 3	NE 2 Calm 0	SW 1 Calm 0	EbyN 1 ENE 2	Calm 0	NE 2 Calm 0	E 3
25	SE	5·4	SE 2	ENE 2 Calm 0	Calm 0 SW 1	NE 2 NE 2	..	E 2 Calm 0	E 2
26	SE	4·6	SE 3	ENE 2 NE 1	NW 1 Calm 0	NE 2 EbyN 2	..	Calm 0 SW 2	E 2
27	SE	7·3	SE 2	ENE 1 Calm 0	Calm 0 Calm 0	E 3 E 3	Calm 0	W 2 NE 2	E 1
28	SSE	9·5	E 2	W 1 Calm 0	SW 1 Calm 0	NE 2 EbyN 2	SE 2	W 2 Calm 0	SE 4
29	SSE	7·2	ENE 2	E 1 SW 1	NW 1 Calm 0	EbyN 2 EbyN 1	Calm 0	NE 2 E 1	SSW 4
30	SE	6·4	ESE 3	Calm 0 SW 2	Calm 0 Calm 0	NE 1 EbyN 1	Calm 0	ENE 2 NE 2	SSE 2
31	SSE	5·2	SE 4	Calm 0 SW 1	N 1 Calm 0	EbyN 2 EbyN 1	Calm 0	NE 2 E 2	Calm 0
Mean	..	5·5	2·9	1·2 1·0	0·9 0·4	1·7 1·7	1·0	2·0 1·7	3·3
§Resultant	140° (90)	..	130° (88)	240° (20)	280° (27)	85° (92)	135° (58)	25° (36)	100° (79)
§Normal	144° (91)	7·8	‖102° (77)	24° (6)	265° (44)	‖‖70° (81)	121° (9)	‖101° (20)	99° (53)

‖ Normal refers to ½ (9 + 21). ‖‖ Normal refers to 9h. †† Mean velocity of the South-East Trade Wind at 608 metres. § Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC—DECEMBER 1923.

‡‡*Spitsbergen.*—On the 12th the ice began to form in Green Harbour, and on the 19th Green Harbour was frozen over. The young ice broke up periodically and drifted in and out of the fjords with the tide. Off the west coast the sea was free of ice.

‡‡*Iceland* was free of ice as is usual in this month.

‡‡*Greenland Sea and Denmark Strait.*—At Bass Rock the old polar ice was lying 7–8 miles offshore, while the young ice broke up now and again. At Angmagsalik the "Storis" formed an ice belt 12 miles wide with a broad land water at first and on the 16th the fjord was ice free, but later easterly winds drove the "Storis" close inshore.

‡‡*N. Atlantic and Labrador.*—No icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 2.

‡‡*Davis Strait.*—The "Storis" reached Narsalik in December. On the last two days of the month a little scattered "Storis" was observed off Arsuk. About the middle of the month great masses of west ice were observed at Upernivik, but they only remained for a few days. On the 7th the ice reached to Danish Island coming from the east and no open water was visible in Frozen Strait. On the 21st Lyon Inlet was still open while there was coast ice in Frozen Strait.

‡‡ *Isforholdene i de arktiske Have, 1923 and 1924*, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, YEAR 1923.

TABLE REPRESENTING THE METEOROLOGY OF THE GLOBE FOR THE YEAR 1923

BY MEANS OF STATIONS SELECTED AT THE RATE OF TWO FOR EACH TEN-DEGREE SQUARE.

Between Latitude 80° N. and 70° N. **YEAR—ZONE 1.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
105	Barrow	71 23	156 17	7·0	..	..	..	..	295·8	Aug. 17	..	226·3	Mar. 6	..	..	..	..	..
123	Inglefield Bay	77 27	66 40	?	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124																		
125	Upernivik	72 47	56 7	19·2	1006·4	1008·8	— 1·6	269·6	288·8	July 28	262·8	234·0	Mar. 9	266·2	*266·2*	+1·8	254	+ 25
133	Germaniahavn	74 30	18 45	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135	Jan Mayen	70 59	W 8 18	23·1	1003·9	1006·8	..	..	284·3	Aug. 1	270·3	259·4	Nov. 14	..	*272·5*	..	413	..
139	§Spitsbergen(GreenHarbour)	78 2	E 14 14	11·4	1007·1	1008·6	— 1·3	..	288·8	July 24	265·6	241·3	Jan. 4	..	268·3	+3·0	355	+ 55
140	Björnöen	74 28	19 15	40·5	1001·2	1006·3	..	..	283·8	July 19	269·5	250·0	Feb. 2	..	*271·5*	..	272	..
141	Gjesvaer	71 6	25 22	6·5	1005·1	1005·9	— 1·9	..	298·1	July 19	273·4	260·2	Dec. 24	..	*275·7*	+0·9	621	—119
142	Mehavn	71 1	27 47	4·6	1005·4	1006·4	— 1·5	..	297·1	July 18	272·0	256·3	Dec. 27	..	*274·6*	+0·4	788	+ 37
143	Vardö	70 22	31 8	6·8	1006·0	1006·9	— 2·0	..	289·2	July 21	272·5	259·1	Mar. 4	..	*274·7*	+1·0	582	— 77
147	Malye Karmakouly	72 23	52 43	14·8	1007·1	1009·0	— 1·1	272·2	294·3	July 22	266·3	244·6	Dec. 22	269·2	*269·3*	+2·5	467	+244
148	Waigatz	70 24	58 47	11·2	1007·6	1009·0	— 1·2	271·0	290·5	June 24,25, July 3	264·4	234·2	Jan. 16	267·7	*267·8*	..	199	..
153	Dickson	73 30 N.	80 23 E.	13	1008·0	1009·7	..	265·2	292·0	July 21	259·1	233·1	Jan. 16, 17	272·2	..	..	139	..

Between Latitude 70° N. and 60° N. **YEAR—ZONE 2.**

203	Nome	64 30	165 24	6·7	..	1009·5	— 0·2	274·0	298·0	July 31	266·9	233·0	Jan. 24	270·4	*270·6*	+1·1	435	— 15
204	Candle	65 55	161 57	2·4	..	..	..	273·6	298·6	Aug. 6	262·3	229·1	Jan. 27	268·0	..	+1·5	..	..
205	Tanana	65 10	152 6	67·1	..	1011·2	— 1·5	274·9	303·6	July 27, 28	264·2	224·1	Jan. 26	269·6	..	+1·7	302	— 23
206	Rampart	65 30	150 15	122	..	..	..	273·8	305·8	July 27, 28	263·2	219·1	Jan. 27	268·5	..	+0·8	239	— 15
207	Valdez	61 7	146 16	8·2	..	..	..	..	..	..	..	..	248·6	Dec. 19	..	..	1646	+306
208	ϕEagle	64 46	141 12	254	..	1011·8	— 0·4	276·3	305·8	June 7	263·3	224·1	Dec. 29	269·8	..	+1·2	225	— 46
209	ϕDawson	64 4	139 29	328	972·7	1013·4	— 0·2	274·9	305·8	June 6, 7	263·2	228·6	Jan. 2, 3	269·1	..	+1·2	306	— 12
210	Carcross	60 11	134 34	662	..	..	..	..	..	Aug. 26	..	233·0	Jan. 3, 4	..	..	..	..	..
211	Fort Good Hope	66 25	128 53	65·2	1009·0	1017·5	..	271·1	304·7	July 19	258·2	223·0	Jan. 27	264·7	..	..	235	+ 10
212	Fort Simpson	61 52	121 35	129	997·9	1014·4	— 0·4	275·8	307·4	July 10	263·0	225·8	Dec. 28	269·4	..	+2·0	387	+ 35
213	Hay River	60 51	115 20	161	993·8	1014·4	+ 0·1	273·0	304·7	July 10	262·7	225·8	Feb. 2	267·8	..	—0·3	297	+ 32
225	Jacobshavn	69 13	51 2	12·6	1005·0	1006·6	— 2·2	272·3	292·4	June 27	265·9	236·3	Jan. 26	269·1	*269·1*	+1·8	285	+ 54
226	Godthaab	64 11	51 43	20·4	1001·1	1003·6	— 2·3	276·4	292·2	July 9	269·8	251·8	Jan. 18	273·1	*272·5*	+1·5	725	+122
227	Ivigtut	61 12	48 10	13·0	1002·6	1004·2	— 1·3	278·6	292·4	May 27	271·4	254·8	Jan. 24	275·0	*274·9*	+1·3	1066	— 43
229	Angmagsalik	65 37	37 33	31·7	1002·2	1006·2	— 1·1	275·9	290·8	Aug. 2	268·7	251·1	Feb. 6	272·3	*271·9*	+0·9	697	—200
231	Stykkisholm	65 5	22 46	25	1001·2	1004·3	— 1·9	279·5	290·8	July 14	273·9	260·0	Jan. 29	276·7	*276·4*	+0·6	747	+ 95
232	Vestmanno	63 24	20 17	132	986·7	1002·9	— 2·5	..	..	..	275·5	261·5	Nov. 15	..	*277·6*	0·0	1244	—121
233	Grimsey	66 33	18 1	22·0	1001·9	1004·6	— 3·0	277·8	290·4	Aug. 12	273·2	261·8	Nov. 14	275·5	*275·1*	+0·5	..	..
234	Teigarhorn (Berufjord)	64 41	14 22	18·0	1002·2	1004·4	— 2·5	280·2	293·4	May 26	274·2	261·0	Jan. 28	277·2	*276·8*	+0·7	1218	+ 52
235	ϕThorshavn	62 3	6 45	26·3	1001·9	1005·1	— 3·4	281·1	289·5	June 28, July 10	276·3	267·1	Nov. 7	278·7	*278·8*	—0·5	1303	—158
236	Lerwick	60 9	W 1 11	18·0	..	1007·1	— 2·2	282·0	290·8	July 7	278·0	270·2	Dec. 19, 26	280·0	*280·1*	—0·1	1211	+247
237	Bergen (Met. Obs.)	60 24	E 5 19	44·4	1002·3	1007·8	— 3·6	282·1	300·5	July 8	276·9	261·0	Dec. 25	279·5	*279·3*	—0·7	2199	+468
238	Aalesund	62 28	6 10	6·3	1006·2	1007·0	— 3·1	..	294·0	July 11	276·9	262·5	Dec. 25	..	*277·2*	—0·7	1263	+ 13
239	Trondhjem	63 26	10 25	39·5	1002·4	1007·3	— 3·2	280·7	301·2	July 9	274·1	251·4	Dec. 25	277·4	*277·3*	—0·4	787	+ 17
240	Bodö	67 17	14 24	22·3	1003·2	1005·9	— 2·9	..	295·6	July 16	274·3	258·0	Dec. 23	..	*277·2*	+0·1	862	— 44
241	Haparanda	65 50	24 9	9·2	1007·2	1008·4	— 2·4	277·0	299·0	July 12	269·8	243·5	Mar. 2	273·4	*273·7*	+0·3	722	+235
242	ϕHelsingfors	60 10	24 57	11·7	1008·8	1010·2	— 2·5	280·2	301·2	July 12	274·2	251·0	Dec. 30	277·2	*277·1*	—0·1	799	+180
2424	Kuopio	62 54	27 40	90·3	998·0	1009·2	— 3·5	278·2	301·5	July 11	271·4	242·2	Mar. 1	274·8	*275·2*	—0·2	722	+125
243	Kola	68 53	33 1	6·7	1007·2	1008·1	— 1·9	276·4	297·0	July 18	269·4	241·7	Jan. 25	272·9	*273·1*	+0·8	428	+125
244	Petrozavodsk	61 47	34 23	38·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
245	Arkhangelsk	64 34	40 31	6·3	1009·4	1010·2	— 1·7	277·3	301·4	June 21	270·8	245·8	Dec. 30	274·0	*273·9*	+0·6	594	+167
246	ϕMezen	65 50	44 16	14·9	1007·8	1009·7	— 1·4	276·0	302·2	June 29	269·2	243·7	Dec. 30	272·6	*272·7*	+1·1	441	+114
247	Oust-Tsylma	65 25	52 18	? 68	..	..	..	276·0	304·3	June 23	268·6	242·3	Nov. 20	272·3	*272·1*	+1·5	415	— 9
248	ϕTcherdyn	60 24	56 31	?177	991·2	1013·3	— 1·4	278·6	305·4	July 2	270·9	246·9	Jan. 19	274·8	*274·6*	+2·1	824	+259
249	Berezov	63 56	65 4	39·5	1009·8	1014·8	+ 1·3	275·0	302·3	June 29	266·1	234·4	Nov. 25	270·6	*270·6*	+1·8	288	— 84
250	Obdorsk	66 31	66 35	23·7	..	..	..	..	..	..	..	230·8	Jan. 9	..	..	..	..	..
251	ϕSourgout	61 15	73 24	? 40	1009·5	1014·6	+ 0·2	..	301·7	July 30	265·2	223·1	Feb. 14	..	*270·7*	+1·3	584	+153
252																		
253	Doudinka	69 23	86 4	20·0	1010·3	1012·8	+ 1·2	..	299·6	Aug. 7	259·2	223·3	Jan. 9, 10	..	*263·0*	+0·5	207	— 32
254	Touroukhansk	65 47	87 57	45·0	..	..	..	..	301·4	July 5	..	215·8	Jan. 18	..	..	..	..	..
261	Vilionisk	63 45	121 35	120	..	..	..	..	..	..	..	219·0	Dec. 12	..	..	..	..	..
262	Ialkoutsk	62 1	129 43	108	1001·5	1015·6	— 0·4	..	301·2	July 18	256·4	215·4	Jan. 17	..	*261·9*	—0·9	212	— 23
263	Verkholansk	67 33	133 23	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..
271																		
272																		
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed, *see* pages 105 and 106. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ϕ Change of normals *see* pages 105 and 106.

Table representing the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
301	Atka	52 8	174 10	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
302	ϕSt. Paul Island	57 15	170 10	21·3	..	1004·7	— 2·5	277·3	286·3	Sept. 3	273·2	255·8	Feb. 27	275·3	..	+1·2	644	−139
303	ϕDutch Harbor (Radio)	53 55	166 30	15·2	..	1005·1	— 2·9	280·3	296·9	July 20	274·8	260·8	Dec. 9	277·6	*277·3*	+0·2	..	..
304	Port Moller	55 56	160 30	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
305	Dillingham	59 0	158 28	24·4	..	..	..	278·8	300·8	July 24	270·9	243·6	Dec. 8	274·8	..	+0·9	..	..
306	Kodiak (Radio)	57 46	152 22	6·1	..	1005·7	— 1·6	282·0	299·7	July 24	275·4	259·7	Mar. 1	278·7	*278·5*	+0·9	‡1278	−155
										Sea Temp.							
307	55°—50°N. 150°—145° W.	††51 32	††147 37	§(258)	..	1009·5	— 1·3	..	..	280·7‖+0·7	..	..	..	..	280·2	+0·3	..	..
309	Sitka	57 3	135 19	27·4	..	1011·5	— 0·4	284·6	300·2	Aug. 20, 22	277·1	260·8	Feb. 13	280·8	*280·6*	+1·2	2586	+431
310	Prince Rupert	54 18	130 18	51·8	1008·4	1014·7	+ 1·3	285·0	299·1	June 6	277·6	258·0	Feb. 14	281·3	*281·4*	+1·1	3355	+775
311	Barkerville	53 2	121 35	1274	867·6	1014·3	+ 0·5	280·5	297·4	July 23, 24	270·0	236·3	Dec. 13	275·3	*275·0*	+0·4	941	+ 21
312	Kamloops	50 41	120 29	385	973·4	1019·7	+ 0·8	287·3	311·3	July 23	276·4	245·8	Dec. 31	281·9	*281·9*	+0·5	273	..
313	Calgary	51 2	114 2	1045	893·5	1014·7	+ 0·7	285·8	305·8	July 23	270·2	233·6	Feb. 14	278·0	*277·3*	+1·6	607	+203
314	Fort Chipewyan	58 42	111 10	218	986·9	1014·4	— 0·4	275·4	302·4	July 11	264·3	229·1	Feb. 12	269·8	*270·3*	−0·5	145	−195
315	Prince Albert	53 10	105 38	442	962·1	1010·4	+ 1·8	281·5	304·1	June 16	268·2	232·4	Feb. 3	274·9	*274·3*	+1·6	371	+ 27
316	Qu'Appelle	50 30	103 47	645	937·3	1014·9	— 0·2	281·9	305·8	May 26	269·3	235·2	Feb. 3	275·6	*275·0*	+1·2	686	+210
317	Minnedosa	50 15	99 50	515	953·3	1016·1	— 0·1	280·3	304·2	July 22	268·1	233·2	Mar. 18	274·2	*273·9*	0·0	482	+ 52
318	Berens River	52 18	97 23	216	..	..	..	279·5	306·9	July 21	265·7	232·4	Feb. 5	272·6	..	0·0	..	..
318a	ϕPort Nelson	57 0	92 51	14·9	1012·4	1014·3	— 0·7	270·8	306·3	June 16	260·6	230·2	Jan., Feb., Dec.	265·7	..	−1·0	..	..
319	Fort Hope	51 33	87 49	‡260	..	..	..	..	306·9	June 17	..	231·3	Jan. 3, Mar. 13	..	..	..	..	−156
320	ϕMoose Factory	51 14	80 30	9·1	1014·1	1015·3	+ 0·7	277·2	306·9	June 17	264·9	231·3	Jan. 11	271·1	..	−1·1	378	..
321	Fort George	53 50	79 5	97·5	..	..	..	272·3	296·3	June 23,30 / July 1	263·4	227·4	Jan. 16	267·8	*267·9*	..	..	−227
322	Mistassini Post	50 15	73 55	383	..	..	..	277·3	303·0	June 18	264·2	228·6	Feb. 4	270·8	..	−0·7	621	..
323																		+ 28
324	Natashquan	50 8	61 48	6·1	..	..	..	277·9	298·0	July 4	268·0	238·0	Feb. 6	272·9	..	−0·2	948	..
326	ϕBelle Isle	51 53	55 23	130	992·6	..	..	274·3	291·3	July 15	268·7	239·7	Feb. 5	271·5	*271·6*	−0·6	..	..
										Sea Temp.								
331	55°—50°N. 30°—25°W.	††52 25	††27 25	§(181–193)	..	1011·3	..	..	..	283·9‖−0·3	..	..	..	..	283·2	..	..	..
333	53°—48°N. 20°—15°W.	††50 26	††17 28	§(189–193)	..	1013·8	..	..	..	285·7‖−0·2	..	..	..	..	284·9	..	..	..
333a	62°—57°N. 20°—15°W.	††58 58	††17 13	§(410)	..	..	..	..	..	282·5‖−0·2	..	..	..	..	281·8	..	..	+80
334	Cahirciveen (Valentia Obs.)	51 56	10 15	13·7	..	1013·4	— 0·3	285·3	294·7	July 6	280·9	270·2	Nov. 25	283·1	283·3	−0·2	1522	+170
335	Aberdeen	57 10	W 2 6	26·8	..	1008·4	— 3·0	283·4	299·1	July 12	278·1	270·2	Dec. 26	280·7	280·7	−0·1	943	+ 14
336	ϕGreenwich	51 28	0 0	46·3	..	1013·3	— 1·8	287·4	306·3	July 11	278·8	268·0	Nov. 26	283·1	282·8	+0·1	610	..
337	Uccle	50 48	E 4 22	100	1002·0	1014·2	— 1·5	287·3	307·8	July 11	278·8	262·2	Dec. 31	283·0	282·3	+0·3	926	+122
338	De Bilt	52 6	5 11	3·0	1012·9	1013·3	— 1·8	285·9	307·8	July 12	278·0	256·9	Dec. 31	281·9	281·8	−0·2	841	+111
338a	Hamburg	53 33	9 58	40·3	1008·2	1013·1	— 1·4	284·2	306·5	July 14	278·5	260·4	Dec. 27	281·3	*281·2*	−0·4	795	+ 59
339	†Copenhagen (Meteor. Inst.)	55 41	12 36	5·0	1011·0	1011·6	— 2·1	283·5	303·8	July 13	277·4	257·0	Dec. 24	280·5	*280·2*	+0·3	630	− 58
340	Potsdam	52 23	13 4	84·9	1003·6	1014·0	— 1·3	285·3	308·3	July 14	277·7	256·8	Dec. 27	281·5	281·2	−0·1	516	+100
340a	Upsala	59 51	17 38	24	1006·5	1009·4	— 2·7	281·3	305·1	July 12	273·3	249·2	Dec. 25	277·3	277·4	−0·5	640	..
341	Warsaw	52 13	21 3	89·9	1003·5	1014·6	— 1·9	284·8	305·6	July 15	277·2	254·4	Dec. 27	281·0	280·9	..	523	+181
342	Tartu (Ülikooli)	58 23	26 43	74·5	1002·3	1011·5	— 2·0	281·1	302·5	July 13	273·9	252·2	Feb. 23	277·5	277·3	−0·2	723	..
343	Petrograd	59 56	30 16	4·8	1010·6	1011·2	— 2·1	279·6	299·1	June 19	273·5	251·6	Feb. 23	276·6	*276·6*	−0·4	589	+100
344	Kiiv	50 27	30 30	183	993·6	1015·9	— 0·5	284·9	303·7	July 15	277·2	253·7	Dec. 25	281·1	*280·6*	+0·7	750	+101
344a	Moscow	55 50	37 33	167	994·2	1014·9	— 1·2	280·6	301·7	May 18	273·2	249·9	Feb. 8	276·9	*276·8*	+0·2	597	+ 31
345	Saratov	51 33	45 57	122	1002·2	1017·3	— 0·3	283·0	307·9	July 4	273·7	243·9	Jan. 11	278·4	*278·1*	+1·0	273	+ 63
346	Kazan	55 47	49 8	79·9	1006·8	1016·7	— 0·5	281·7	308·3	June 22	273·2	245·7	Feb. 11	277·4	*277·1*	+0·8	494	+ 64
347	Orenburg	51 45	55 6	109	1005·4	1019·0	— 0·7	..	309·9	July 8	271·7	237·9	Jan. 10	..	*277·0*	+0·3	293	− 55
348	Perm	58 1	56 16	163	995·6	1015·9	— 0·6	279·8	305·5	July 2	271·8	243·8	Feb. 7	275·8	*275·6*	+1·4	537	..
349	Sverdlovsk	56 50	60 38	281	981·2	1015·9	— 0·3	280·3	306·0	Aug. 23	271·4	245·8	Feb. 9	275·8	*275·7*	+1·9	397	+ 72
350	Tobolsk	58 12	68 14	108	1002·7	1016·3	— 0·2	279·1	305·2	July 11	269·8	236·8	Jan. 9	274·4	*274·2*	+1·3	507	+ 19
351	ϕAkmolinsk	51 12	71 23	347	..	..	..	..	309·5	Aug. 15	269·9	234·1	Feb. 14	..	*275·8*	+1·4	266	+ 91
352	Omsk	55 1	73 19	108	1004·3	1017·9	— 0·4	280·0	310·4	Aug. 16	269·8	230·4	Feb. 14	274·9	*274·7*	+1·6	308	+ 0
353	Barnaoul	53 20	83 48	162	1000·0	1020·3	— 0·2	281·0	308·8	June 14	269·5	226·2	Jan. 20	275·2	*275·3*	+1·5	451	+ 52
354	Tomsk	56 30	84 58	122	1002·6	1018·0	— 0·6	..	306·0	July 13	268·3	225·4	Feb. 16	..	*273·5*	+1·4	528	..
355	ϕMinousinsk	53 43	91 41	248	989·8	1021·0	+ 0·1	..	305·4	July 13	..	..	..	..	*274·3*	+0·8	336	+ 25
356	Eniseisk	58 27	92 10	77·6	1007·9	1017·9	+ 0·2	..	304·0	Aug. 6	264·6	221·7	Jan. 19	..	*270·6*	−0·7	377	+ 47
357	Irkutsk	52 16	104 19	467	962·4	1020·4	— 0·5	278·0	305·5	July 20	265·1	230·9	Jan. 21	271·5	271·5	−0·2	322	..
358	Kirensk	57 47	108 7	278	985·1	1019·4	+ 0·8	..	305·5	July 20	262·9	221·9	Jan. 12	..	*268·7*	−0·6	..	..
359	Tchita	52 2	113 30	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
360	Nertchinskii Zavod	51 19	119 37	626	..	..	..	..	..	..	..	..	..	..	..	..	..	..
361	Tygan Ourkan	54 5	124 46	379	956·8	1014·3	— 1·2	275·5	305·5	July 18	261·7	229·4	Jan. 14	268·6	*269·1*	+0·2	..	− 91
362	Blagovyeshchensk (Bureau Météor.)	50 16	127 30	142	994·6	1012·4	— 2·2	278·4	307·2	July 22	267·5	237·1	Dec. 15	273·0	*272·6*	−0·4	414	..
363																		
364																		
365	Nikolaevsk-sur-Amour	53 8	140 45	21·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
366																		
367																		
368	Petropavlovsk (Phare)	52 53	158 43	87·1	995·5	1006·4	— 1·3	..	294·5	Aug. 21	271·0	252·3	Jan. 31	..	*273·1*	−0·1	1039	+ 90
369																		
		N.	E.															
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* pages 106 and 107. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ "*See* Remarks," pages 106 and 107.
†† Mean latitude and longitude of the observations. § Number of observations. ϕ Change of normals *see* pages 106 and 107.

Table representing the Meteorology of the Globe between Latitude 50° N. and 40° N.

YEAR—ZONE 4.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
411	Victoria, B.C.	48 24	123 19	70·1	1008·9	1017·5	+ 0·8	286·3	303·0	June 28	279·7	261·4	Feb. 13	283·0	282·5	+0·3	699	− 71
412	Portland, Oregon	45 32	122 41	46·6	1012·9	1018·4	+ 0·6	289·9	308·0	Aug. 28, Sept. 7	281·1	263·0	Feb. 14	285·5	*285·2*	+1·1	833	−272
413	Macleod	49 44	113 24	953	..	..	..	285·9	307·4	July 24	272·7	233·0	Feb. 14	279·3	*279·4*	+1·2	438	+ 84
414	Helena	46 34	112 4	1253	873·8	1016·9	+ 0·5	285·6	306·9	July 29, Aug. 12	273·8	238·6	Dec. 31	279·7	*279·6*	+0·3	339	0
414a	Salt Lake City	40 46	111 54	1329	868·0	1016·4	+ 0·5	288·2	308·0	July 30	278·4	257·4	Feb. 3	283·3	*283·5*	−0·7	480	+ 64
415	Cheyenne	41 8	104 48	1856	812·7	1016·3	+ 0·3	285·5	303·0	June 24	273·4	239·7	Dec. 31	279·5	*279·5*	−0·5	553	+197
416	North Platte	41 8	100 45	860	918·0	1018·0	+ 1·1	289·8	308·0	July 7	276·0	245·8	Dec. 31	282·9	*282·3*	+0·7	576	+106
416a	Bismarck	46 47	100 38	510	956·3	1017·7	+ 1·0	285·3	307·4	July 8, Sept. 3	272·7	239·7	Feb. 4	279·0	*278·9*	+1·2	402	− 31
417	Winnipeg	49 53	97 7	232	987·3	1016·0	— 0·2	282·2	308·6	July 22	270·2	235·8	Jan. 5	276·2	*275·9*	+1·8	400	−113
418	Duluth	46 47	92 6	345	974·8	1016·9	+ 0·7	281·7	304·7	July 19	271·8	236·9	Feb. 3	276·7	*276·5*	+0·3	567	−165
419	Port Arthur	48 27	89 12	196	992·4	1016·7	+ 0·5	280·3	308·0	July 19	270·9	238·6	Feb. 3	275·6	*275·5*	+0·7	446	−143
420	Chicago	41 53	87 37	251	987·2	1017·5	+ 0·5	286·8	308·6	June 25	279·6	250·8	Feb. 4	283·2	*283·3*	+0·1	825	− 14
421	Toronto	43 40	79 24	116	1002·7	1017·0	+ 0·4	285·2	308·4	June 24	275·8	248·4	Jan. 17	280·5	280·3	+0·2	855	+ 60
422	ϕNew York (Central Park)	40 47	73 58	47·4	1011·3	1017·1	0·0	289·1	310·2	July 20	280·0	259·1	Feb. 18	284·6	284·3	0·0	1030	− 77
423	ϕSt. John, N.B.	45 17	66 4	36·2	1009·8	1014·3	— 0·4	281·5	302·2	July 21	273·1	247·2	Jan. 18	277·3	277·1	−0·8	1138	− 82
424	S.W. Point, Anticosti	49 24	63 33	9·1	1011·0	1012·1	+ 0·3	277·1	293·8	July 19	271·3	245·8	Jan. 18	274·2	*274·4*	−0·4	903	+114
424a	Sable Island (Main Station)	43 57	60 6	7·6	1013·2	1014·1	— 0·9	281·4	293·6	Aug. 22	276·6	259·7	Mar. 29	279·0	*278·9*	−1·0	906	−397
425	Port aux Basques	47 35	59 10	9·1	1011·3	1012·4	— 0·4	278·6	296·6	Aug. 4	272·4	249·7	Feb. 5	275·5	*275·5*	−0·9	1309	− 71
426	St. John's, Newfoundland	47 34	52 42	48·8	..	..	..	..	301·3	July 3	..	249·7	Feb. 5	..	..	..	..	..
										Sea Temp.							
430	50°—45°N. 35°—30°W.	††47 43	††32 30	§(345–346)	..	1014·9	..	..	..	286·9‖−0·4	..	..	..	..	..	..	..	..
435	Madrid	40 24	3 41	667	939·5	1016·7	— 0·6	291·8	308·8	July 26	281·1	269·4	Jan. 30	286·5	*285·8*	+0·3	349	− 77
436	Nantes	47 15	W 1 34	36·5	1011·8	1016·4	— 0·4	288·9	309·3	July 6	280·3	270·4	Jan. 24	284·6	284·5	+0·4	751	− 35
437	Paris (Parc St. Maur)	48 49	E 2 29	50·3	1009·8	1016·3	— 0·4	288·3	308·4	Aug. 9	279·3	268·6	Jan. 18	283·8	283·7	+0·5	718	+156
438	Marseille	43 18	5 23	75	..	1014·3	— 0·7	292·7	308·4	July 14, Aug. 4	281·9	268·8	Jan. 23	287·3	*286·9*	−0·2	609	+ 34
438a	Zürich	47 23	8 33	493	958·5	1017·0	— 0·7	287·5	308·7	Aug. 10	278·1	262·3	Dec. 31	282·8	282·2	+0·6	1035	− 74
439	Rome	41 54	12 27	45·5	1009·1	1014·3	— 0·9	294·1	309·3	Aug. 12	284·6	270·6	Dec. 23	289·4	*289·2*	+0·8	876	+ 45
440	Vienna	48 15	16 22	203	991·2	1015·7	— 0·9	286·0	304·0	July 15	279·2	256·3	Dec. 28	282·6	282·6	0·0	671	+ 23
440a	Budapest	47 31	19 2	130	999·5	1015·2	— 1·4	289·3	308·1	Aug. 10	279·8	257·5	Dec. 28	284·5	284·3	+1·4	629	− 9
441	ϕSofia	42 42	23 20	550	951·5	1016·1	— 1·3	289·8	305·7	Sept. 3	279·3	257·4	Jan. 19	284·6	*284·2*	+1·3	679	+ 34
442	Bucharest	44 25	26 6	82	1005·8	1015·7	— 1·1	290·9	308·0	Sept. 3	279·9	257·4	Dec. 31	285·4	284·9	+1·3	621	+ 32
443	Odessa (Observatory)	46 26	30 46	42·8	1010·7	1015·9	— 1·2	287·5	306·0	July 16	280·4	256·9	Dec. 27	283·9	*283·7*	+0·8	270	−124
444	Kharkiv (University)	50 0	36 14	140	999·5	1016·0	— 1·9	285·3	306·0	July 15	276·3	252·1	Feb. 22	280·8	*280·6*	+1·1	370	−131
444a	Novorossiisk	44 44	37 49	37·1	1011·4	1015·9	— 0·2	291·2	307·0	Sept. 3	282·9	262·1	Feb. 3	287·0	*286·9*	+1·3	680	− 15
445	ϕTiflis	41 43	44 48	404	969·7	1017·2	— 0·3	291·2	308·9	July 10	276·4	252·2	Feb. 13	283·7	*283·6*	+1·4	140	− 16
446	Astrakhan	46 21	48 2	— 20	1020·3	1017·9	— 0·6	288·0	306·5	July 10	279·4	252·2	Feb. 15	283·7	*283·6*	+1·4	140	− 16
447	Fort Alexandrovsk	44 31	50 7	— 23·0	1020·4	1017·6	+ 0·2	288·2	309·0	July 10	281·2	259·5	Feb. 15	284·7	*284·6*	+0·6	98	− 46
448	ϕKrasnovodsk	40 0	52 59	— 4·6	1017·1	1016·5	0·0	292·9	313·5	July 12	285·5	266·8	Dec. 5	289·2	*288·8*	+0·1	73	− 68
449	Kasalinsk	45 46	62 7	66·7	1011·1	1019·3	+ 0·8	..	..	..	..	..	..	..	*281·4*	+1·1	136	+ 21
450	Tachkent	41 20	69 18	478	960·6	1016·6	— 0·4	293·3	313·7	Aug. 15	280·6	258·4	Dec. 6	287·0	*286·3*	+0·1	453	+106
451	Narynskoe	41 26	76 2	‡2015	..	..	..	..	..	..	..	..	..	..	..	..	..	..
452	Alma Ata	43 16	76 53	841	920·4	1018·2	— 0·7	287·2	310·8	Aug. 9	276·4	249·4	Jan. 22	281·8	*281·5*	+0·8	662	+ 91
461	ϕMoukden	41 48	123 23	43·8	1010·4	1015·8	— 0·7	286·3	306·5	July 1	274·5	246·7	Nov. 30	280·4	280·0	+0·1	1065	+393
462	Joshin	40 40	129 11	31·9	1011·0	1014·9	+ 0·1	285·2	305·5	Aug. 14	277·1	253·3	Jan. 1	281·1	280·9	+0·1	491	−215
463	Yuki	42 20	130 24	65·6	1006·6	1014·7	— 0·3	283·4	306·6	Aug. 8	275·3	249·2	Jan. 1	279·3	279·1	−0·1	656	− 64
464	Vladivostok	43 7	131 53	128	999·1	1015·0	— 0·8	280·8	304·2	July 29	274·2	249·2	Jan. 14	277·5	*277·3*	−0·4	591	+ 21
465	Ochiai	47 20	142 47	27·4	1007·4	1010·8	— 1·0	280·5	303·0	Aug. 22	269·6	237·7	Jan. 26	275·1	275·3	+0·7	819	− 47
466	Nemuro	43 20	145 35	26·7	1009·0	1012·3	— 0·3	282·1	302·8	July 30	274·3	253·5	Feb. 4	278·2	278·4	−0·1	1185	+226
466a	ϕSyana	45 14	147 53	39·3	1006·6	1011·5	— 0·3	280·7	299·9	July 30	273·1	251·5	Feb. 22	276·9	277·0	−0·3	1081	− 56
		N.	E.															

Between Latitude 40° N. and 30° N. YEAR—ZONE 5 (Western Half).

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
308	35°—30° N. 145°—140° W.	††31 28	††142 4	§(232)	..	1022·3	— 0·9	..	..	Sea Temp. 292·3‖+0·5	..	..	..	..	291·7	+0·8	..	..
311	San Francisco	37 48	122 26	47·2	1011·4	1017·1	+ 0·2	290·8	303·6	Sept. 5	283·4	275·2	Jan. 30	287·1	*286·2*	+1·3	281	−286
312	San Luis Obispo	35 18	120 39	61·3	1009·5	1016·9	0·0	294·8	308·6	Sept. 6	281·3	270·8	Feb. 10	288·1	*286·8*	+0·8	326	−213
313	San Diego	32 43	117 10	26·5	1011·7	1014·8	— 0·4	293·4	305·8	Oct. 13	285·9	276·3	Feb. 3	289·6	*289·2*	+0·7	166	− 75
314	Modena	37 48	113 54	1670	833·5	1015·0	— 0·1	289·3	309·1	June 30	272·7	246·9	Feb. 10	281·0	*280·7*	−0·8	254	− 34
315	Santa Fé	35 41	105 57	2138	787·4	1014·2	— 0·1	288·1	305·8	July 30	275·7	255·2	Feb. 4	281·9	*281·7*	−0·3	362	− 10
316	Denver	39 45	105 0	1613	837·3	1016·1	+ 0·4	288·4	307·4	June 24	276·3	248·0	Dec. 31	282·4	*282·5*	−0·5	543	+181
317	Abilene	32 23	99 40	530	954·8	1015·8	0·0	296·7	312·4	July 31	284·9	263·0	Mar. 19	290·8	*290·2*	+0·2	834	+222
318	Saint Louis	38 38	90 12	173	996·6	1017·2	0·0	291·3	309·7	Aug. 11	282·2	255·8	Feb. 4	286·7	*286·5*	+0·4	1058	+ 50
319	Mobile	30 41	88 2	17·4	1015·8	1017·8	+ 0·2	297·3	307·4	July 23	288·4	270·8	Feb. 19	292·8	*292·4*	+0·6	1463	−124
320	Nashville	36 10	86 47	166	998·8	1018·7	+ 0·3	293·6	307·4	July 15, Aug. 15	283·0	261·9	Feb. 18	288·3	*288·2*	+0·1	1334	+129
321	Charleston	32 47	79 56	14·6	1016·6	1018·3	+ 0·1	295·9	308·6	July 7, Aug. 12	288·2	270·8	Feb. 19	292·1	*292·2*	+0·5	1182	− 47
322	Washington	38 54	77 3	34·1	1013·4	1017·5	— 0·3	291·6	309·7	June 21	281·2	261·3	Feb. 18	286·4	*286·3*	+0·7	906	−168
324	Bermuda	32 17	64 46	46·0	1013·2	1018·6	+ 0·4	297·1	305·2	Aug. 26	290·8	279·1	Jan. 18	293·9	*293·8*	−0·7	1151	−308
330	Santa Cruz (Flores)	39 27	31 9	40	1017·6	1022·6	+ 0·6	293·1	301·7	July 27	288·3	273·7	Feb. 14	290·7	*290·8*	+0·2	1313	−273
331	ϕHorta	38 32	28 38	65	1015·0	1022·8	+ 1·2	293·0	301·6	July 29, Aug. 28	288·3	278·6	Feb. 7	290·7	290·5	−0·1	860	−230
332	Ponta Delgada	37 44	25 40	2	1020·3	1022·8	+ 1·4	292·6	300·3	Aug. 12, 14	288·7	281·8	Mar. 24	290·7	290·6	+0·3	..	..
332a	Faja da Cima	37 48	25 40	175	..	..	..	..	..	..	..	..	..	..	..	..	811	−333
333	Madeira (Funchal)	32 38	16 55	25	‡1019·2	‡1022·1	+ 2·3	294·6	309·0	Aug. 12	289·2	282·7	Jan. 26	291·9	*291·9*	+0·7	1872	+1183
335	Lisbon	38 43	9 9	95	1007·6	1018·9	+ 1·0	292·9	309·1	Aug. 17	285·8	276·3	Jan. 15	289·3	289·0	+0·3	448	−296
335a	Melilla	35 17	2 59	40	..	..	..	296·1

YEAR—ZONE 5 (Eastern Half). Table representing the Meteorology of the Globe between Latitude 40° N. and 30° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
537	Palma	39 34	2 39	23	1013·4	1016·1	— 1·2	293·7	310·0	Aug. 14	284·6	274·0	Jan. 20, 25	289·1	..	—1·3	503	+ 23
538	Algiers (Bouzaréah)	36 47	3 2	344	976·5	1016·7	+ 0·1	291·9	311·4	July 15	286·1	275·9	Dec. 21	289·0	*288·8*	—0·1	954	+257
539	ϕTunis	36 48	10 10	21	1012·4	1014·9	..	295·6	311·3	July 16	285·8	274·2	Dec. 22	290·7	*290·2*	—0·1	519	+101
539*a*	Malta	35 53	14 30	56·4	..	1015·2	+ 0·2	294·1	310·4	July 20	286·1	276·9	Dec. 22	291·6	*290·9*	—0·3	466	— 38
540	Riposto	37 41	15 14	14·2	..	1016·6	— 0·4	293·9	306·6	July 21	287·6	276·0	Dec. 23	290·8	*290·5*	—0·2	370	—329
541	Athens	37 58	23 43	107	1001·6	1014·2	— 0·7	295·5	310·8	July 20	287·3	272·5	Jan. 21	291·4	291·6	+1·3	351	— 46
542	ϕAlexandria	31 12	29 53	32·0	1010·9	1014·6	0·0	299·2	316·1	June 24	290·3	277·5	Jan. 21	294·7	*294·0*	+0·7	104	— 97
543	Nicosia (P.W.D.)	35 9	33 22	159	993·7	1012·1	— 0·6	299·0	314·1	June 21	285·9	274·1	Feb. 3	292·4	..	+0·7	354	— 39
544	Beirut	33 54	35 28	33·7	..	1013·0	— 0·7	297·1	307·5	Sept. 5	290·6	279·1	Feb. 3	293·9	*293·7*	+0·4	771	—137
545	Hinaidi	33 17	44 29	32·3	..	1011·4	— 0·7	302·9	320·1	July 13	287·7	277·8	Jan. 28	295·3	*295·2*	..	114	..
546	Lenkoran	38 46	48 52	—20·0	1019·5	1017·1	0·0	..	366·2	July 11	284·1	271·5	Jan. 29	..	*287·6*	+0·1	821	—236
547	Tehran	35 41	51 25	1220	..	..	..	293·3	308·3	July 18	282·9	266·1	Feb. 1, 7	288·1	*287·9*	—1·4	505	+260
548	Meshed	36 16	59 35	946	879·9	..	..	293·4	310·6	Aug. 20	278·5	260·2	Jan. 29	285·9	..	—0·4	377	+142
549	Seistan	31 0	61 30	610	..	..	..	299·9	314·0	July 15, Aug. 15	286·1	265·2	Dec. 13	293·0	..	..	59	+ 9
550	Quetta	30 11	67 3	1677	832·3	..	— 0·3	295·7	310·4	Aug. 2	270·4	262·4	Dec. 13	287·6	*287·4*	—0·3	197	— 52
551	Peshawar	34 2	71 37	339	971·3	1010·3	— 0·4	302·3	319·3	June 11	288·3	271·8	Dec. 30	295·3	*294·7*	—0·1	380	+ 38
551*a*	Lahore	31 34	74 20	214	983·9	1008·5	— 0·4	303·7	319·4	June 10	290·2	274·9	Jan. 2	296·9	*296·4*	—0·3	487	— 12
552	Simla	31 7	77 8	2204	780·7	..	+ 0·2	289·0	300·5	June 10	283·1	269·7	Jan. 13	286·1	*285·9*	—0·2	1592	— 25
552*a*	Leh	34 10	77 42	3503	666·2	..	0·0	284·1	299·7	Aug. 3	271·3	249·5	Jan. 25	277·7	*276·8*	—1·2	120	+ 39
559	Hankow	30 35	114 17	37·0	1012·1	1016·5	— 0·5	294·9	311·2	Aug. 4	286·3	265·3	Jan. 25	290·6	*290·2*	+0·4	813	—418
560	ϕTientsin	39 10	117 10	5·0	1016·1	1016·7	— 0·6	290·8	311·4	July 1	280·3	257·5	Jan. 2	285·5	*285·3*	+0·1	656	+131
561	ϕShanghai (Zi-ka-Wei)	31 12	121 26	7	..	1016·2	— 0·2	293·9	310·4	Aug. 1	284·3	263·7	Jan. 4	289·1	288·1	0·0	981	—167
562	ϕJinsen (Chemulpho)	37 29	126 37	67·6	1008·5	1016·7	+ 0·4	287·8	307·0	Aug. 6, 23	279·8	253·6	Jan. 2	283·8	283·3	—0·4	965	—115
562*a*	Nagasaki	32 44	129 52	133	999·5	1015·2	— 0·2	292·6	307·8	Aug. 9	285·1	268·4	Jan. 2	288·9	288·7	—0·4	2670	+714
563	Kyoto	35 1	135 44	42·9	1009·8	1015·0	+ 0·3	293·3	310·6	Aug. 16	282·7	266·1	Jan. 2	288·0	287·4	+0·7	2135	+557
564	Tokyo	35 41	139 46	5·8	1013·7	1014·4	+ 0·3	291·8	308·1	Aug. 15	283·2	266·4	Jan. 4	287·5	287·2	+0·4	1697	+175
565	Kanayama	37 53	140 46	24·6	1011·3	1014·3	+ 0·2	289·8	308·6	Aug. 14	279·9	257·4	Feb. 18	284·9	284·3	0·0	1708	+241
566	Miyako	39 38	141 59	30·4	1009·9	1013·6	0·0	288·8	307·2	Aug. 28	278·5	261·4	Jan. 18, Feb. 23	283·7	283·0	0·0	1649	+238

YEAR—ZONE 6. Between Latitude 30° N. and 20° N.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
601	Midway Island	28 15	177 22	5·8	..	1017·4	— 0·3	298·7	304·7	July, Sept., Oct.	290·8	283·6	Dec. 29	294·8	*294·3*	..	1116	..
605	Honolulu	21 19	157 52	11·6	1014·6	1015·9	— 0·8	299·3	303·6	Sept.	294·4	287·4	Jan.	296·9	*296·7*	+0·2	947	+ 144
614	La Paz	24 10	110 20	12	1010·5	1011·9	..	302·1	313·0	May 27	290·4	274·8	Mar. 21	296·3	..	..	296	+ 24
615	Chihuahua	28 38	106 4	1423	858·9	1011·4	..	296·6	308·0	July 1	284·2	263·0	Feb. 5	290·4	*291·6*	—0·3	642	+ 73
616	ϕLeon	21 7	101 41	1809	823·3	1012·6	+ 1·5	299·8	307·1	June 5	283·4	274·0	Jan. 1, 12	291·6	*291·7*	+0·1	717	+ 43
616*a*	ϕMonterry	25 40	100 18	528	954·0	1013·7	+ 0·2	299·2	310·5	May 12	289·2	270·0	Feb. 5, 6	294·2	*293·5*	—1·0	933	+ 43
617	Tulancingo	20 5	98 22	2181	790·3	..	..	295·9	304·2	May 30	281·8	274·0	Nov. 23	288·9	*287·7*	—0·6	586	+ 43
618	Galveston	29 18	94 50	16·5	1015·2	1017·2	+ 0·2	296·7	306·3	Aug. 23	291·4	271·3	Feb. 5	294·1	*293·9*	+0·3	1005	+ 13
618*a*	ϕNew Orleans	29 57	90 4	16·2	..	1017·5	+ 0·4	298·2	308·0	July 24	289·8	273·6	Mar. 20	294·0	*293·8*	+0·5	1565	+ 13
619	Merida, Yuc.	20 58	89 38	22	1012·1	1014·6	— 0·6	303·8	311·6	May 28	294·3	286·6	Jan. 20	299·1	*298·3*	+0·3	734	+ 25
620	Havana	23 8	82 21	24·3	..	1017·1	+ 0·9	302·2	307·0	May 2, Oct. 7	294·6	287·2	Nov. 15, 19	298·4	*298·0*	+0·5	1128	— 33
620*a*	Key West	24 33	81 48	6·7	1016·2	1016·8	+ 0·4	300·9	305·2	4 months	295·4	286·3	Feb. 19, Nov. 18	298·2	*297·6*	+0·3	633	— 33
621	Nassau, Bahamas	25 5	77 21	7·3	..	..	..	..	..	..	..	..	..	..	‡*298·1*	—0·5	997	— 28
622	Watling Island	24 6	74 26	33·5	..	..	..	..	..	..	..	..	291 Jan. 18, Nov. 16	..	..	..	..	— 1
633	Izaña	28 19	16 30	2367	769·1	..	..	285·6	299·0	Aug. 20	278·0	265·9	Jan. 28	281·8	*281·4*	—0·1	274	— 186
634	La Laguna	28 28	W16 20	547	955·3	1018·7	+ 1·6	293·2	309·9	Aug. 12	285·0	275·8	Feb. 3	289·1	*288·5*	—0·5	400	— 2
641	Siwa	29 12	E25 29	— 23	1017·8	1015·1	..	302·5	317·0	June 22, 24	..	273·0	Dec. 30	..	..	..	0	..
642																		
643	Cairo (Helwan)	29 52	31 20	116	1000·5	1013·9	+ 0·1	301·0	317·0	May 26	288·4	277·6	Jan. 28	294·7	*294·5*	+0·3	28	— 6
643*a*	Aswan	24 2	32 53	99·6	1000·2	1011·6	— 0·1	307·6	320·6	June 26	291·7	277·0	Jan. 18	299·6	*299·0*	+0·8	..	..
644	Tor	28 14	33 37	1·9	1011·4	1011·7	+ 0·1	301·3	314·1	June 7	289·9	278·9	Dec. 30	295·6	*295·2*	+0·5	13	— 115
647	Bushire	28 59	50 53	4·3	1009·8	1010·3	+ 0·2	300·3	315·3	June 28	293·4	279·0	Feb. 7	296·9	*296·3*	—0·1	387	+ 5
648	Jask	25 44	57 47	4·0	1009·6	1010·0	+ 0·2	304·3	314·0	Aug. 6, Sept. 20	296·0	285·8	Feb. 7	300·1	*299·5*	+0·4	144	— 3
649	Karachi	24 53	66 57	4·0	1009·1	1009·6	— 0·2	301·6	309·0	Apr. 13	294·2	283·7	Dec. 12, 16	297·9	*297·3*	—0·5	141	— 51
650	Jacobabad	28 17	68 29	56·7	1002·2	1008·7	+ 0·3	306·3	322·5	June 25	291·7	273·4	Dec. 13	299·0	*298·4*	—1·0	122	— 55
651	Jaipur	26 56	75 52	436	960·7	1009·7	0·0	305·6	318·4	June 3	291·4	277·6	Jan 23	298·5	*297·8*	—0·2	533	— 5
652	Nagpur	21 8	79 5	310	974·7	1009·5	— 0·1	306·2	319·7	June 3	293·6	280·2	Jan. 3	299·9	*299·4*	0·0	1102	— 54
653	Allahabad	25 25	81 51	94·2	998·4	1008·6	+ 0·2	306·1	319·6	June 10	292·8	276·9	Jan. 3	299·4	*298·7*	+0·6	911	— 54
653*a*	Darjeeling	27 3	88 18	2265	775·5	..	— 0·2	288·5	295·0	Aug. 16	282·3	272·4	Feb. 21	285·4	*285·2*	+0·7	2507	— 157
654	Calcutta	22 36	88 23	6·4	1007·8	1008·5	— 0·5	303·9	315·2	June 13	294·7	281·6	Jan. 3	299·3	*299·0*	+0·4	1434	— 158
655	Gauhati	26 8	91 41	59·7	1003·1	1010·0	— 0·8	302·5	311·2	Mar. 31	292·2	281·1	Jan. 3	297·3	*296·5*	+0·2	1474	—1125
655*m*	Cherrapunji	25 15	91 42	1313	867·6	..	— 0·3	293·8	303·9	Apr. 24	288·0	278·8	Jan. 2	290·9	*290·3*	+0·7	9048	+1455
655*a*	Akyab	20 11	92 56	6·1	1008·6	1009·3	— 0·7	302·4	307·9	May 3	294·7	285·4	Jan. 19	298·6	*298·4*	—0·4	6651	+1717
656	Mandalay	21 59	96 0	76·2	1001·4	1010·0	— 0·3	306·8	314·1	Apr. 23	295·1	286·1	Jan. 2, 3	300·9	*300·3*	+0·1	1053	— 61
656*a*	Tengyueh	25 2	98 33	1626	834·4	1008·1	+ 0·7	294·1	300·8	Aug. 9	282·8	271·3	Jan. 1	288·5	*287·8*	+0·1	1444	— 3
657	ϕPhu-Lien	20 48	106 38	116	997·5	1010·9	— 0·3	300·6	309·3	July 15	293·8	280·8	Dec. 31	297·2	296·4	+0·5	1743	+1068
658	ϕMoncay	21 31	107 51	90·0	1010·3	1011·3	— 0·3	299·9	309·6	July 23	292·7	277·8	Feb. 2	296·3	*296·4*	+0·3	3930	+ 549
659	ϕHongkong	22 18	114 10	33·2	..	1012·1	— 0·5	298·1	306·8	Aug. 4	293·6	280·6	Jan. 4	295·9	295·5	+0·4	2711	— 457
660	ϕAmoy	24 27	118 4	ca.3	..	..	..	..	..	..	..	..	..	..	..	..	..	—1065
661	Taihoku, Formosa	25 2	121 31	9·3	1012·6	1013·7	+ 0·1	299·4	309·3	Aug. 1	290·9	277·4	Feb. 2	295·2	294·7	+0·1	1639	— 117
661*a*	Basco	20 28	121 59	18·7	..	1009·7	— 0·5	300·4	305·8	July 22	295·9	288·5	Jan. 2	298·2	*298·2*	—0·5	2039	— 15
662	ϕNaha	26 13	127 41	10·5	1012·4	1013·6	+ 0·1	298·9	307·6	July 14	292·1	279·0	Mar. 1	295·5	295·4	+0·3	2033	— 154
665	Titizima (Bonin Islands)	27 5	142 11	4·0	1014·0	1014·5	+ 0·3	299·0	305·6	July 25	293·4	280·2	Jan. 12	296·2	296·0	+0·4	1440	— 15
		N. ° ′	E. ° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed see pages 109 and 110. † Estimates not based on at least six equally-spaced observations each day are in *italics*. *See* "Remarks" page 109.
ϕ Changs of normals *see* pages 109 and 110.

Table representing the Meteorology of the Globe between Latitude 20° N. and 10° N. **YEAR—ZONE 7.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
715	Colima	19 12	103 45	‡498	955·5	1010·7	..	305·5	311·0	May 16	291·2	283·9	Mar. 15	298·3	*296·9*	+0·5	1174	..
716	Morelia	19 42	101 7	1923	810·8	1011·6	..	295·6	303·3	Apr. 30	284·9	278·9	Jan. 20, Feb. 20	290·3	*289·6*	—0·1	776	..
717	Mexico, Tacubaya	19 24	99 12	2309	775·2	..	0·0	296·9	304·7	May 23	281·3	274·9	Jan. 20	289·1	288·2	+0·3	638	+ 2
718	ϕSalina Cruz	16 12	95 12	56	1004·6	1011·0	— 1·7	303·0	308·5	June 6	296·5	291·2	Mar. 20, 21	299·7	*299·9*	+0·3	920	— 11
719	ϕSan Salvador	13 42	89 12	682	937·2	1012·9	+ 0·6	304·5	308·8	Mar. 27, May 2	289·8	283·8	Oct. 24	297·2	*295·7*	—0·5	1722	— 82
720	Belize	17 29	88 12	5·2	1012·7	1013·3	— 0·6	302·3	306·1	Oct. 17, 18	296·2	288·0	Oct. 23	299·3	*298·9*	—0·1	1075	—628
721	Jamaica (Negril Point)	18 15	78 23	10·1	..	1014·1	+ 0·6	303·4	306·7	July 14	294·4	290·1	Jan. 8	298·9	*298·7*	+0·1	1100	—2841
722	Port au Prince	18 33	72 20	37·4	1010·8	1015·1	+ 0·6	305·2	309·9	Aug. 20, 24	294·8	290·9	Jan. 25	300·0	*299·4*	+0·2	1080	—291
723	Caracas	10 30	66 56	1042	899·8	1014·4	+ 0·8	298·4	303·0	May 6 10, Aug. 27	288·0	281·4	Dec. 13	293·2	*291·9*	—0·7	695	..
724	Montserrat	16 41	62 9	36·6	1010·9	1015·2	+ 0·2	302·9	308·0	May 25	295·5	289·7	Mar. 3	299·2	*298·7*	—0·2	1155	—443
724*a*	ϕGrenada (Richmond Hill)	12 5	61 46	155	‡995·6	‡1013·5	+ 0·7	301·9	305·2	Oct. 31	296·1	292·4	Feb. 10	299·0	*298·5*	0·0	1416	—491
725	Barbados	13 8	59 36	55·2	..	1014·0	+ 0·2	302·0	304·4	May 29	..	290·8	Mar. 3	..	*298·2*	—0·2	915	—478
731	São Vicente, C. Verde Is.	16 54	25 4	11	1012·9	1014·2	0·0	298·4	303·0	Oct. 2	292·4	287·0	Nov. 16	295·4	*296·3*	—0·2	61	— 87
732	San Tiago, C. Verde Is.	14 54	23 31	34	1010·0	1013·9	— 0·5	299·9	304·5	Oct. 2	295·1	290·2	Feb. 3	297·5	*297·5*	0·0	150	—138
733	Bathurst	13 27	16 34	1·8	1013·6	1013·8	+ 0·4	302·9	310·8	Mar. 4, April 15	293·5	285·8	Jan. 19	298·2	*298·2*	—0·2	1605	+456
734	M'Carthy Island	13 33	14 45	1·1	..	..	..	308·3	316·3	Apr. 20, May 26	294·4	286·3	Jan. 6, 13	301·3	..	0·0	916	— 26
735	Niénébalé	12 57	7 26	300	..	..	..	..	314·8	Mar. 20	..	281·4	Nov. 30	..	..	..	..	..
736	Timbuktu	16 43	W 3 2	270	..	..	..	..	318·0	June 4	..	..	..	..	..	..	..	..
737	ϕSokoto	13 2	E 5 14	353	..	..	..	308·8	316·3	Mar. 19	293·4	283·6	Dec. 24, 25	301·1	*300·6*	+0·1	636	— 45
738	Kaduna Capital	10 32	7 25	637	944·3	1014·9	+ 0·9	304·1	310·8	Mar. 16, 21	..	..	..	..	‡*297·5*	+0·4	1106	—255
739	Hadeija	12 40	10 5	?	..	..	..	..	316·3	Apr. 29	..	283·0	Dec. 4	..	..	..	..	..
740	ϕMaiduguri	11 47	13 11	361	..	..	..	309·3	318·6	Apr. 28, 29	293·2	283·0	Jan. 13	301·3	*300·8*	+0·1	657	+ 60
741	El Fasher	13 32	25 18	730	..	..	..	307·6	314·9	Mar. 31	289·4	277·0	Feb. 5	298·5	*297·6*	..	302	..
743	El Obeid	13 11	30 14	569	946·5	1009·6	— 0·1	307·4	314·3	Mar. 31	291·8	280·4	Feb. 4	299·6	*299·2*	+0·8	360	+ 4
743*a*	ϕKhartoum	15 37	32 33	390	965·4	1008·5	— 0·6	..	316·9	June 15	294·3	283·0	Feb. 4	..	*301·5*	—0·7	339	—186
744	Port Sudan	19 37	37 13	5·5	1008·9	1009·6	— 0·4	306·5	319·2	July 23	296·6	288·8	Feb. 4	301·5	*301·0*	+0·2	228	+129
745	Berbera, Somaliland	10 22	45 2	9·5	1009·9	1011·0	0·0	308·2	319·7	June 14	297·6	288·6	Jan. 3, 5	302·9	*302·9*	0·0	73	+ 8
746	Aden	12 45	45 3	28·7	1007·9	1011·2	+ 0·2	303·7	315·7	July 8	298·3	293·4	Jan. 29	301·0	*300·5*	—0·3	43	— 7
751	Bombay	18 54	72 49	11·3	1009·1	1010·3	— 0·4	303·4	308·6	Mar. 13	297·1	290·2	Feb. 25	300·3	299·4	+0·3	1970	+177
752	Kodaikanal	10 14	77 28	2343	770·4	..	— 0·6	291·7	300·7	May 5	283·3	277·9	Jan. 31	287·5	*286·7*	+0·3	1568	— 10
752*a*	Bangalore	12 59	77 38	921	910·1	1010·6	— 0·3	302·6	309·8	May 12	291·0	284·0	Feb. 1	296·8	*296·1*	+0·4	677	—220
753	Madras	13 4	80 14	6·7	1009·2	1010·0	— 0·3	306·3	316·6	June 10	297·2	290·2	Feb. 3	301·7	*301·1*	+0·4	949	—340
754	Vizagapatam	17 42	83 19	11·6	1007·6	1009·0	— 0·5	303·9	317·4	June 9	297·4	289·4	Jan. 3	300·7	*300·1*	+0·1	1259	+315
755	Port Blair	11 40	92 40	18·0	1007·7	1009·8	— 0·8	302·7	306·6	Apr. 17	297·7	293·5	Feb. 7	300·2	*299·6*	—0·5	3074	+117
756	Rangoon	16 46	95 48	5·5	1010·0	1010·7	— 0·2	304·7	311·1	Apr. 25	296·3	290·0	Jan. 6	300·5	*299·4*	+0·2	3056	+540
757	Saigon (Cap St. Jacques)	10 20	107 5	180	989·0	1009·6	+ 0·8	301·8	308·4	Apr. 24	295·8	291·4	Feb. 2	298·8	*298·4*	—0·5	1304	— 17
758	Nhatrang	12 15	109 12	3·6	1009·1	1009·5	0·0	303·3	310·0	July 16	295·7	288·8	Feb. 3	299·5	*299·0*	—0·2	2116	+595
759	Bolinao	16 23	119 53	7·1	..	1006·9	— 1·4	304·3	311·2	Apr. 17	294·6	288·8	Dec. 27	299·5	*299·4*	—0·7	..	..
761	Vigan	17 34	120 23	12·2	..	1008·3	— 0·9	304·3	308·3	June, July, Nov.	296·4	290·5	Feb. 25	300·4	299·9	—0·1	2677	+ 86
761*a*	Manila	14 35	120 59	14·2	..	1009·1	— 0·3	304·2	309·1	Apr. 29	295·4	290·2	Apr. 2	299·8	299·0	—0·6	3428	+1406
763	ϕOrmoc	11 0	124 36	5·6	..	1007·9	— 0·5	304·9	307·4	Apr. 15	295·5	290·9	Mar. 28, 29	300·2	*299·6*	+0·5	2249	— 11
765	Guam, Ladrone Is.	13 24 N.	144 38 E.	18·6	..	1007·6	— 1·0	302·8	305·8	June 11	297·5	295·0	Feb. 8	300·2	*300·0*	—0·1	2322	— 18

Between Latitude 10° N. and 0°. **YEAR—ZONE 8.**

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Mean at M.S.L.	Diff. from Normal	Temperature. Mean Max. A	Absolute Max.	Date.	Mean Min. B	Absolute Min.	Date.	Mean of A and B	†24 hr. Mean *	Diff. from Normal	Precipitation. Total.	Diff. from Normal
		° ′ N.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
805	Fanning Island	3 54	159 23	5·3	1010·0	1010·6	..	305·0	309·8	Oct. 11	298·1	295·3	June 16, 17	301·6	*301·1*	+0·8	1734	—1061
821	Colon	9 23	79 23	11·0	..	1010·9	— 0·2	302·9	306·9	Oct. 19	297·6	294·1	July 28, Oct. 23	300·2	*299·8*	+0·5	3506	+271
822	Bogota	4 36	74 5	2645	744·3	..	..	291·5	295·1	Nov. 24	282·4	276·2	Jan. 13	287·0	*286·6*	..	645	—412
822*a*	Merida, Venez	8 36	71 9	1641	‡841·3	..	— 0·3	297·1	301·0	May, Aug, Sept.	287·8	284·0	Jan. 3, 9, 16, Feb. 7	292·5	*291·4*	+0·1	1269	—568
823	Ciudad Bolivar	8 9	63 33	38	1006·9	1011·2	..	304·9	308·2	May 2	296·3	293·3	Mar. 2	300·6	*300·0*	..	634	—278
824	ϕEl Peru, Guayanavieja	7 19	61 49	220	985·8	1010·8	+ 0·2	302·8	306·3	Sept. 20	292·5	287·2	Mar. 31	297·7	*297·0*	—0·6	1137	—251
825	Georgetown, Brit. Guiana	6 50	58 12	1·8	..	1013·5	+ 0·9	302·6	304·9	Nov. 16	296·9	294·1	Dec. 13	299·7	*299·4*	—0·3	2047	—206
826	Paramaribo	5 49	55 9	3·7	‡1013·4	‡1013·8	+ 0·9	303·6	307·7	Sept. 27, Oct. 1	295·1	291·1	Mar. 11	299·3	*299·1*	+0·7	2290	+ 6
826*a*	Cayenne	4 56	52 21	6	..	..	..	..	310·0	Dec. 11	..	..	..	..	..	..	3015	—196
831	10°—5° N. 30°—25° W.	††7 33	††27 49	§(1030-1218)	..	1013·7	+ 1·2	..	..	Sea Temp. 298·9—0·4	..	..	..	..	298·5	—0·5	..	..
833	Konakri	9 31	13 43	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
834	Freetown, Sierra Leone	8 29	13 9	68·3	1004·1	1012·0	+ 0·6	303·6	308·0	Jan. 20	296·3	293·6	Jan. June, Aug.	299·9	*299·9*	—0·2	3184	—809
836	Assuantsi	5 18	1 15	101	..	..	..	302·2	306·3	Feb. 6, 7, 10	294·3	289·1	Aug. 29	298·2	*298·2*	—0·2	1605	+456
837	ϕAccra	5 33	W 0 12	27·0	1008·0	1011·1	..	302·8	305·8	Feb. 6, Apr. 25	295·8	291·9	Aug. 29	299·3	*298·8*	+0·3	534	—162
838	ϕLagos	6 27	E 3 24	4·6	1010·4	1011·0	+ 0·2	303·2	306·3	Dec. 29	296·9	293·6	Aug. 11, 19	300·1	*299·3*	0·0	1817	— 10
839	Zungeru	9 48	6 10	130	..	..	..	307·1	312·4	Feb. 22 (Mar. 11, 18, 31)	294·1	286·3	Dec. 4, 5	300·6	*300·1*

YEAR—ZONE 9.

Table representing the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
905	Malden Island	4 1	155 1	7·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
924	ϕManaos	3 8	60 1	43·8	..	..	..	304·1	310·0	Oct. 29	296·1	293·0	May 24	300·1	..	..	2059	+252
926	Taperinha	2 30	54 20	20·0	1009·2	1011·6	+ 0·2	303·7	307·7	Oct. 18, 31	295·1	292·3	Aug. 7	299·4	*298·4*	+0·2	2602	+669
927	ϕTuryassu	1 43	45 26	9·1	1009·6	1010·8	— 0·6	304·6	307·8	Oct. 28, Nov. 15	295·1	292·0	July 17, Aug. 5	299·8	*298·9*	—0·1	2100	+130
928	ϕBarra do Corda	5 30	45 16	81·0	1000·5	1009·8	— 0·5	305·0	309·6	Nov. 16	293·8	287·2	July 27, Aug. 6	299·4	*298·3*	—0·1	1149	— 70
929	Quixeramobim	5 16	39 15	207	989·7	1013·1	+ 0·9	305·0	309·0	Jan. 9	295·7	291·4	May 30	300·4	*300·1*	—0·3	565	+200
930	ϕFernando Noronha	3 50	32 25	106	1000·5	1012·4	— 0·4	300·7	303·2	Feb. 6	296·8	294·0	July 26	298·8	*298·4*	+0·1	1458	..
934	Ascension Island	7 56	W14 25	16·8	..	..	..	..	..	..	..	292·4	July 24	..	..	..	..	..
939	Loanda	8 49	E 13 13	51	..	..	..	299·1	305·2	Apr. 24	294·1	288·0	July 21	296·6	296·2	—0·3	561	+245
940	Brazzaville	4 17	15 16	321	..	..	..	..	311·0	Apr. 23	..	285·5	July 15	..	..	..	1394	+179
943	Masaka	0 21	31 47	?1280	..	..	..	303·9	306·5	Oct. 21, Nov. 4	..	..	..	..	*292·9*	+0·3	1075	+ 53
944	Nairobi (Dept. Agric.)	1 17	36 50	1675	..	..	..	..	303·0	Mar. 23	..	279·1	Sept. 6, 25	..	..	..	1427	+504
944*a*	Zanzibar	6 10	39 11	21·9	1012·8	1015·3	— 0·6	301·9	305·3	Mar. 22	297·9	293·8	Aug. 2	299·9	*299·3*	+0·1	1457	— 72
945	ϕLamu	2 16	40 50	3·0	..	..	..	302·0	304·7	{Apr. 4, 16 / Dec. 20, 25}	297·5	294·1	{Aug. 6, 7, 8 / Nov. 11}	299·8	*299·4*	—0·3	952	— 50
947	Seychelles, Port Office	4 37	55 27	4·6	1011·4	1011·8	— 0·1	301·0	304·1	Apr. 8	298·3	295·7	Sep. 25, Nov. 3	299·7	*298·9*	+0·3	2866	+495
957	ϕPadang	0 56	100 22	6·7	1009·2	1010·0	— 0·6	..	..	..	..	..	..	..	..	..	3894	—548
958	Batavia	6 11	106 50	8·0	1009·0	1009·9	0·0	303·6	308·1	Oct. 22	296·2	292·3	Aug. 10	299·9	299·4	+0·3	1664	—108
958*a*	Pontianak	0 1	109 20	2·6	1010·1	1010·4	+ 0·5	..	..	..	..	..	..	..	..	..	3623	+420
959	Pasuruan	7 38	112 55	5·0	..	..	..	..	..	..	..	..	..	..	..	..	1121	—186
960	Kajoemas	7 56	114 9	1060	..	..	..	..	..	..	..	..	..	..	..	..	2347	—177
962	Amboina	3 42	128 10	4·2	1009·1	1009·6	— 0·1	..	..	..	..	..	..	..	..	..	2652	—771
963	ϕManokwari	0 52	134 20	19·0	..	..	..	..	..	..	..	..	..	..	..	..	1481	—1005
965	Daru	9 4	143 13	7·6	..	..	..	..	..	..	..	..	..	..	..	..	1496	—732
966	ϕPort Moresby	9 29	147 9	39·0	..	..	..	..	..	..	..	..	..	..	..	..	792	—243
967	Rabaul	4 9	152 12	20·7	..	1008·3	..	304·8	308·3	Oct. 11	295·7	293·3	Aug. 4	300·2	*299·6*	—0·2	2663	+426
969	Tulagi, Brit. Solomon Is.	9 6	160 10	2·1	..	..	..	..	?306·2	Nov. 14, Dec. 18	..	293·6	Oct. 8	..	..	..	..	..
970	Ocean Island	0 52	169 35	54·0	1001·1	1007·2	— 0·5	304·1	306·3	Oct. 25	297·2	294·1	Mar. 17	300·6	*299·9*	—0·3	2549	+418

YEAR—ZONE 10.

Between Latitude 10° S. and 20° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1002	Apia, Samoa	13 48	171 46	2	..	1010·6	+ 0·3	302·8	305·3	Feb. 24	295·8	291·5	Sept. 16	299·3	299·1	+0·2	3771	+684
1003	Alofi, Niue Island	19 2	169 55	27·4	..	..	..	301·9	309·7	Feb. 25	293·4	286·3	Oct. 4	297·7	*297·5*	—0·3	2151	+130
1021	ϕArequipa	16 22	71 33	2452	761·2	..	+ 0·3	293·0	296·9	July 23	283·1	277·8	Apr. 4	288·1	*287·8*	+0·6	126	+ 20
1022	Tacna	18 0	70 18	560	..	..	..	..	..	..	..	..	..	..	*290·3*	..	32	..
1023																		
1024	Sucre, Bolivia	19 3	65 16	2850	728·5	..	..	..	301·0	Mar. 28	..	271·4	July 4	..	*286·2*	..	539	—186
1025	ϕCorumba	18 59	57 39	116	997·5	1010·6	+ 0·2	302·8	311·4	Dec. 27	293·0	279·0	May 25	297·9	*297·6*	—0·4	1090	—101
1026	ϕCuyaba	15 36	56 6	165	992·1	1010·8	+ 0·4	305·0	311·3	Sept. 8	293·1	279·4	May 26	299·0	*297·7*	—0·5	1502	+125
1027	Bello Horizonte	19 55	43 57	895	..	..	..	..	..	..	..	..	..	..	..	..	..	—276
1028	Caetite	14 3	42 37	897	916·0	1014·7	+ 0·3	300·4	308·6	Dec. 26	289·4	281·6	July 27	294·9	*295·2*	+0·2	579	—427
1029	ϕOndina (Bahia)	13 0	38 31	46·6	1008·3	1013·6	— 0·5	301·1	306·2	Nov. 20	295·4	291·5	Aug. 7	298·2	*298·0*	+0·2	1508	..
1030	ϕAracaju	10 55	37 3	6·1	..	..	..	..	307·7	Nov. 20	..	290·0	July 24	..	..	..	..	..
1035	St. Helena	15 57	W 5 40	‡604	946·6	1015·7	+ 0·9	293·6	299·7	Feb. 25, Mar. 19	285·7	283·0	July 8	289·7	*289·7*	0·0	1257	+239
1039	Mossamedes	15 12	E 12 9	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1041	Livingstone	17 51	25 51	972	..	..	..	..	..	..	..	..	..	..	..	..	840	+188
1041*a*	Elisabethville	11 39	27 28	1236	877·6	1010·4	— 0·3	302·3	308·6	Sep. 22, Nov. 23	286·0	276·2	July 16	294·1	..	+0·6	1343	+393
1042	Gwelo	19 28	29 48	1417	863·0	1014·9	+ 0·2	299·8	311·4	Nov. 10	285·0	273·1	Aug. 2	292·4	..	+0·9	997	..
1043	Salisbury Gaol, Rhodesia	17 48	31 5	‡1468	‡854·1	‡1011·2	— 1·1	299·9	310·2	Nov. 10, Dec. 8	283·9	272·6	July 12	291·9	*290·9*	+0·4	995	+185
1044	Zomba	15 23	35 18	955	908·0	1012·8	— 0·4	299·8	310·8	Nov. 22	289·2	280·8	May 24, July 15	294·5	*294·0*	+0·7	1201	— 35
1045	ϕAntananarivo	18 55	47 33	1375	865·8	1014·1	+ 0·3	297·8	307·0	Nov. 16	285·7	278·0	Aug. 29	291·7	291·3	+0·5	1331	..
1046	Tamatave	18 10	49 24	5	..	..	..	300·1	304·5	Feb.	292·7	281·0	June	296·4	*295·9*	..	3039	..
1047	Vohémar	13 21	50 1	3	..	..	..	304·3	308·2	Mar.	294·8	..	..	299·5	*298·9*	..	1054	..
1048	Antalaha	14 58	50 19	3	1014·0	1014·3	..	..	..	..	..	..	..	..	..	..	..	..
1055	Cocos Keeling Is.	12 5	96 53	4·6	1013·6	1014·2	+ 1·0	301·4	305·2	Mar. 1	297·4	294·3	June 27	299·4	*299·0*	—0·4	1320	—785
1057	ϕChristmas Island	10 25	105 43	5·5	1008·2	1008·8	0·0	303·7	306·9	Apr. 7	296·5	293·0	Oct. 17	300·1	*299·4*	—0·1	2173	+ 49
1061	Kupang	10 10	123 34	45·1	1005·3	1010·6	+ 0·3	304·7	309·5	Nov. 12	295·4	289·5	Sept. 9	300·0	299·4	0·0	1166	—372
1061*a*	ϕDerby	17 18	123 40	16·2	1009·6	1011·5	+ 0·3	305·8	314·2	Nov. 22	294·3	282·3	July 11	300·1	..	—0·4	549	—140
1062	ϕHall's Creek	18 13	127 46	373	970·2	1011·6	0·0	305·7	314·9	Nov. 14	289·2	273·5	Aug. 8	297·4	*296·8*	—1·1	506	—24
1063	Darwin	12 28	130 51	29·6	1006·8	1010·2	+ 0·7	305·3	309·4	Nov. 17	295·9	288·5	Aug. 10	300·6	*299·5*	—0·5	1721	+150
1064	Daly Waters	16 16	133 23	211	985·5	1009·0	— 1·0	306·6	315·2	Nov. 11, 12, 30	291·3	277·4	Aug. 8	298·9	*298·3*	—1·0	630	+165
1065	ϕMein	13 13	142 47	122	995·5	1009·2	— 0·2	304·2	312·3	Nov. 17	..	281·4	July 12	..	..	..	1372	..
1066	ϕGeorgetown, Queensland	18 22	143 32	302	978·2	1011·9	+ 0·2	305·9	313·9	Nov. 16	290·4	274·1	July 11	298·2	..	0·0	437	..
1066*a*	Willis Island	16 18	149 59	8·5	1010·6	1011·5	..	300·8	305·3	Jan. 19	296·6	291·8	Aug. 7	298·7	*298·3*	..	741	—364
1067	Samarai	10 37	150 40	15·2	..	1010·3	+ 0·1	..	..	..	..	..	..	..	‡*299·7*	—0·3	2494	— 90
1072	Suva, Fiji	18 8 S.	178 26 E.	6·1	1011·8	1012·5	— 0·2	300·2	305·8	Feb. 12	294·3	287·1	Oct. 3	297·3	*297·1*	—0·7	2777	..
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

*For formulæ employed *see* pages 112 and 113. †Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," pages 112 and 113. ϕ Change of normals *see* pages 112 and 113.

Table representing the Meteorology of the Globe between Latitude 20° S. and 30° S.

YEAR—ZONE 11.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1105	Rarotonga (Avarua)	21 12	159 47	6	..	..	..	299·6	305·2	Jan. 13	293·3	286·9	Aug. 18, 20	296·4	*296·2*	—0·2	1933	— 36
1121	Punta Tortuga, Coquimbo	29 56	71 21	27	1013·0	1016·2	0·0	290·2	296·0	Jan. 25	285·0	278·8	July 10	287·6	*287·5*	+0·2	110	— 15
1122	Iquique	20 12	70 11	9	1014·0	1015·1	0·0	293·5	302·3	Feb. 2	287·3	284·1	May 18	290·4	*290·9*	—0·2	2	+ 1
1123	Catamarca	28 27	65 47	510	952·8	1010·5	— 0·5	300·5	316·2	Mar. 12	286·0	269·4	Aug. 31	293·2	292·9	—0·3	258	— 98
1124	Salta	24 46	65 28	1178	882·5	1011·9	+ 0·5	297·2	309·3	Nov. 30	283·7	266·2	July 13	290·4	290·3	—0·3	616	— 92
1125	Cóya	29 9	59 15	26	1009·3	1012·3	+ 0·3	299·9	313·7	Jan. 24	288·2	273·0	July 13	294·1	293·1	+0·2	1251	+181
1126	Asuncion	25 17	57 41	93	1001·8	1012·7	+ 0·3	303·9	314·3	Dec. 15	290·1	274·0	July 12, 13	297·0	295·7	+0·2	1324	+ 1
1127	Curityba	25 25	49 17	908	913·4	1015·0	— 0·8	295·9	307·3	Dec. 5	284·4	266·8	July 23	290·2	*289·3*	0·0	1345	— 52
1128	Rio de Janeiro	22 54	W43 10	33·0	1011·2	1015·0	0·0	300·8	311·5	Dec. 5	292·4	284·3	July 13	296·6	296·0	+0·3	‡975	..
1139	ϕWindhoek	22 34	E 17 5	1669	..	..	..	298·0	308·5	Dec. 26	286·0	274·5	June 21	292·0	*292·0*	—0·1	704	+327
1140																		
1141	Kimberley	28 42	24 47	1202	883·2	1014·4	— 0·3	299·3	310·8	Dec. 27	283·9	269·7	July 29	291·6	291·3	+0·8	271	—140
1141*a*	Johannesburg	26 11	28 4	1806	823·4	1015·7	— 0·4	294·9	304·7	Sept. 30	283·3	270·7	June 4	289·1	*288·7*	+0·7	672	—172
1142	Bulawayo	20 9	28 35	1340	869·0	1013·6	— 0·5	298·9	309·1	Nov. 10	285·7	275·0	July 12	292·3	*291·8*	+0·2	792	+194
1143	Durban	29 52	31 3	15·2	1016·3	1018·1	— 0·8	298·2	310·6	Dec. 1	290·7	282·5	June 6	294·4	*293·9*	+0·5	809	—274
1144	Lourenço Marques	25 58	32 36	59	..	1016·3	— 1·0	300·8	314·2	Sept. 22	290·8	282·3	June 14	295·8	295·4	+0·4	1126	+332
1145	Tuléar	23 23	43 40	4	..	..	..	..	..	..	287·3	282·0	July	..	..	..	485	..
1146	Fort Dauphin	25 2	46 58	25	..	1017·0	..	298·6	304·0	Jan.	290·2	280·0	Oct.	294·4	*293·9*	..	785	..
1147	Mauritius	20 6	57 33	55·2	1009·5	1015·9	— 0·2	300·0	307·5	Dec. 16	292·8	285·0	June 8	296·4	296·1	+0·1	1271	+ 10
1159	Onslow	21 43	114 57	4·3	1010·5	1011·4	— 0·2	304·8	319·3	Feb. 21	290·1	279·0	July 2	297·4	..	—0·1	681	+465
1160	Cue	27 27	117 52	454	962·5	1013·6	0·0	301·0	315·9	Feb. 13	287·8	274·4	June 9	294·4	..	—0·1	274	+ 48
1161	ϕNullagine	21 53	120 5	386	968·4	1011·1	— 0·5	305·6	315·9	Dec. 31	288·8	271·8	June 11	297·2	..	—0·4	343	+ 8
1162	Laverton	28 40	122 23	466	962·8	1014·4	— 0·8	301·1	316·8	Feb. 23	286·9	272·2	June 9	294·0	*293·9*	+0·9	179	— 70
1163	Alice Springs	23 38	133 37	587	947·5	1012·6	— 1·7	301·4	315·1	Feb. 27	285·5	270·2	Aug. 7	293·4	*293·4*	—0·5	372	+ 89
1164	ϕWilliam Creek	28 55	136 21	76·2	1005·8	1014·5	— 1·0	301·6	318·3	Jan. 23	286·3	272·4	Aug. 6	293·9	*293·6*	+0·6	129	+ 5
1164*a*	Boulia	22 55	139 38	146	995·0	1011·5	— 0·2	305·0	317·4	Feb. 27	289·4	273·7	Aug. 1	297·2	*297·2*	+0·3	87	—212
1165	Thargomindah	27 58	143 43	123	999·0	1013·1	— 0·8	301·5	316·8	Jan. 24	288·4	275·1	Aug. 4	294·9	*294·6*	+0·2	308	+ 25
1166	Mitchell	26 32	147 52	336	975·7	1013·3	..	301·1	315·2	Feb. 28	284·4	269·9	Aug. 10	292·7	..	+0·4	391	—224
1167	ϕRockhampton	23 24	150 30	11·3	1012·4	1013·7	— 0·8	302·3	314·0	Jan. 30	289·7	276·8	Aug. 5	296·0	..	+0·2	514	—506
1168	ϕBrisbane	27 28	153 2	41·8	1009·9	1014·7	— 1·2	299·1	310·0	Feb. 1	288·7	278·3	Aug. 16	293·9	*293·3*	+0·4	591	—559
1170	ϕNorfolk Island	29 4 S.	167 59 E.	15·2	1014·3	1016·0	— 0·3	295·2	304·7	Jan. 15	..	282·4	Aug. 17	..	..	..	1366	— 27

Between Latitude 30° S. and 40° S.

YEAR—ZONE 12.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1221	Juan Fernandez	33 37	78 50	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1221*a*	Punta Tumbes	36 37	73 6	120	1002·2	1016·7	— 0·2	288·2	295·0	Jan. 15, May 23	281·4	275·0	May, June, July	284·8	*285·0*	—0·9	655	+137
1222	Punta Angeles, Valparaiso	33 1	71 38	41	1011·4	1016·3	— 0·2	291·6	306·0	Nov. 6	283·4	276·5	July 30	287·5	*287·1*	—0·9	506	+ 18
1222*a*	Santiago	33 27	70 42	520	955·0	1015·6	0·0	294·5	306·3	Jan. 15	279·8	270·0	July 11	287·1	*286·1*	—0·5	306	— 57
1223	Cordoba	31 25	64 12	423	964·2	1013·0	— 0·4	297·9	311·9	Nov. 8	283·2	266·1	July 11	290·6	289·9	0·0	725	+ 22
1224	Bahia Blanca	38 45	62 15	25	1010·7	1013·8	— 0·5	293·3	312·0	Nov. 24	282·6	271·2	May 21	287·9	287·6	—0·8	954	+418
1225	Buenos Ayres (Chacarita)	34 36	58 22	25	1011·8	1014·6	— 0·9	294·1	313·0	Jan. 24	284·2	271·4	July 13	289·2	289·2	+0·1	977	+ 32
1226	Montevideo (Obs. Central)	34 55	56 13	24·3	..	1013·1	— 2·0	..	307·8	Mar. 12	..	274·6	July 23	..	*290·0*	+0·6	1053	+ 11
1226*a*	ϕPorto Alegre	30 2	W51 13	23·5	1011·1	1013·9	— 1·6	297·6	311·2	Jan. 25	287·4	271·8	May 15	292·5	292·2	0·0	1214	+ 8
1239	ϕCape Town	33 56	E18 29	12·2	..	1016·6	— 0·4	294·8	310·6	Feb. 15	285·5	275·9	July 28	290·2	*288·8*	+0·4	708	+ 72
1240	Danger Point	34 37	19 18	27·7	1013·4	1016·7	..	292·8	302·4	Nov. 21	285·7	278·0	{July 29, 30 / Aug. 26}	289·3	..	+0·5	1171	+534
1241	Riversdale	34 6	21 16	‡?100	..	..	..	..	313·0	Apr. 3	..	271·9	July 29	..	..	..	401	— 35
1242	East London	33 2	27 55	44·8	..	1016·6	— 0·5	296·3	310·8	Sept. 3	287·1	276·9	June 5, Aug. 7	291·7	..	+0·5	991	+344
1259	ϕPerth (Observatory)	31 57	115 51	60·0	1008·4	1015·8	— 0·7	295·9	314·9	Feb. 4	286·1	277·6	July 7	291·0	*290·8*	+0·1	1128	+255
1260	Katanning	33 42	117 35	310	979·0	1015·2	— 0·9	294·7	313·8	Feb. 4	281·9	271·4	July 8	288·3	..	—0·3	607	+143
1261	Coolgardie	30 57	121 10	423	966·5	1014·6	— 1·1	298·5	316·2	Feb. 19	284·5	272·3	Aug. 12	291·5	*291·4*	+0·4	192	— 66
1262	Eucla	31 45	128 58	4·6	1014·6	1015·2	— 1·2	295·1	317·4	Feb. 21	285·6	273·2	Aug. 17	290·3	*289·8*	—0·1	210	— 44
1263	Streaky Bay	32 48	134 13	13·1	1014·4	1015·9	— 1·3	296·9	315·2	Feb. 21	285·3	270·9	Sept. 6	291·1	*290·5*	+0·9	423	+ 44
1264	ϕAdelaide	34 56	138 35	42·7	1010·4	1015·4	— 1·6	295·9	315·2	Feb. 22	285·2	276·5	Sept. 8	290·6	*290·3*	+0·4	757	+220
1265	ϕMelbourne	37 49	144 58	35·1	1009·9	1014·1	— 2·2	292·5	314·2	Feb. 22	283·0	274·2	Aug. 18	287·8	*287·5*	+0·1	575	— 71
1266	Bourke	30 13	145 58	110	1004·1	1017·0	— 1·1	302·0	318·6	Feb. 24	286·4	273·0	July 25	294·3	..	+0·7	217	—135
1267	ϕSydney	33 51	151 13	42·1	1008·9	1013·9	— 1·9	295·4	312·3	Jan. 15	286·6	278·2	July 22	291·0	*290·5*	+0·7	939	—266
1268	ϕLord Howe Island	31 20	159 0	4·6	1014·5	1015·1	— 1·2	295·3	301·7	Mar. 1	288·8	279·6	Aug. 26	292·1	..	—0·1	1513	—160
1271	Auckland	36 50	174 50	38·1	..	1013·7	— 1·4	290·9	298·3	Jan. 30	284·6	275·0	July 7	287·7	..	—0·4	1247	+131
1272	Napier	39 32 S.	176 53 E.	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

Between Latitude 40° S. and 50° S.

YEAR—ZONE 13.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station.	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1301	Chatham Island	43 57	176 31	45·7	..	1007·7	..	..	..	..	..	..	..	..	..	..	1026	+103
1321	Isla Guafo	43 34	74 45	140	997·8	1014·8	— 0·4	284·6	297·0	Dec. 29	280·5	275·0	Aug. 1	282·5	*282·5*	—0·3	1028	— 28
1322	Punta Galera	40 1	73 44	40	1012·0	1016·9	+ 0·4	286·0	292·8	Jan. 25	281·4	275·0	July 11	283·7	*284·1*	—0·5	2021	—180
1323	Sarmiento	45 30	69 0	274	978·4	1010·0	— 0·8	289·1	308·8	Jan. 12	277·5	256·4	July 16	283·3	283·1	—0·6	199	+ 71
1324	Puerto Madryn	42 49	W64 58	14	1010·0	1011·4	— 0·3	291·7	309·2	Jan. 26	280·4	265·1	July 16	286·1	285·9	—0·6	266	+104
1365	Launceston	41 27	E147 10	10·1	1009·1	1010·3	— 3·1	291·3	305·8	Feb. 12	280·3	271·8	May 27	285·8	*285·0*	+0·2	855	+139
1366	ϕHobart	42 53	147 20	53·9	1003·3	1009·9	— 2·4	289·4	304·3	Dec. 30	281·1	274·2	May 27	285·3	*284·5*	—0·1	836	+232
1370	Invercargill	46 25	168 21	3·7	..	..	..	287·6	301·9	Dec. 7	277·7	266·9	July 20	282·7	..	—0·3	1213	+ 43
1371	Dunedin	45 52	170 31	91·4	..	1011·4	— 0·4	287·8	301·9	Nov. 27, Dec. 3	280·0	271·9	July 6, 7	283·9	..	+0·6	1136	+199
1371*a*	Christchurch	43 31	172 39	7·6	..	1011·4	— 1·2	288·9	305·6	Dec. 17	279·6	269·4	Aug. 19	284·2	..	—0·2	794	+154
1372	Wellington	41 16 S.	174 46 E.	3·0	..	1013·2	— 0·8	289·7	298·1	Jan. 22	282·6	271·9	Aug. 9, 26	286·1	..	+0·2	1042	—180
		° ′	° ′	metres.	mb.	mb.	mb.	a.

YEAR—ZONE 14. Tab'e representing the Meteorology of the Globe between Latitude 50° S. and 60° S.

No.	Name of Station.	Latitude.	Longitude.	Height.	Pressure.* Mean at Level of Station	Pressure.* Mean at M.S.L.	Pressure.* Diff. from Normal	Temperature. Mean Max. A	Temperature. Absolute Max.	Temperature. Date.	Temperature. Mean Min. B	Temperature. Absolute Min.	Temperature. Date.	Temperature. Mean of A and B	Temperature. †24 hr. Mean *	Temperature. Diff. from Normal	Precipitation. Total.	Precipitation. Diff. from Normal
		° ′ S.	° ′ W.	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.
1421	Islota de los Evangelistas	52 24	75 6	55	998·3	1005·0	+ 2·5	280·6	285·6	Feb. 6	277·0	269·2	July 31	278·8	*278·7*	−0·6	2844	−188
1422	Puerto de Punta Arenas	53 10	70 54	28	1000·4	1003·8	+ 1·6	281·9	295·4	Jan. 12	276·2	265·8	July 4	279·1	*279·2*	−0·3	*222*	−163
1423	Punta Dungeness	52 24	68 26	5	..	..	..	..	..	..	..	268·0	July 15	..	..	..	..	..
1424	Santa Cruz	50 11	68 21	12	1004·5	1005·5	+ 0·6	286·0	307·0	Jan. 12	276·0	262·4	Aug. 2	281·0	280·9	−0·7	155	+ 5
1424*a*	‡Año Nuevo	54 39	64 8	50	..	..	..	280·4	293·0	Feb. 3	275·8	266·5	July 15	278·1	*277·6*	−0·6	993	..
1425	Stanley, Falkland Is.	51 42	57 51	1·8	..	1004·1	..	281·1	293·6	Jan. 6	275·1	262·4	June 15	278·1	..	..	..	..
1426	Cape Pembroke	51 41	57 42	21·3	1000·8	1003·4	+ 1·5	280·6	290·8	Feb. 14	275·4	265·8	June 15	278·0	278·4	−0·7	..	..
1429	S.Georgia (Cumberland Bay)	54 14 S.	36 33 W.	4	997·7	998·2	+ 1·2	277·5	294·0	Feb. 16	270·5	258·8	Aug. 29	274·0	*274·4*	−0·4	1258	−43

YEAR—ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys.	60 44 S.	44 39 W.	7	993·1	994·0	+ 1·3	271·2	280·0	Feb. 2	265·8	240·2	July 17	268·5	268·8	+0·3	480	+ 77
		° ′	° ′	metres.	mb.	mb.	mb.	a.	a.		a.	a.		a.	a.	a.	mm.	mm.

* For formulæ employed *see* page 114. † Estimates not based on at least six equally-spaced observations each day are in *italics*. ‡ *See* "Remarks," page 114.

SUMMARY OF RESULTANT WINDS FOR THE YEAR, 1923.

	St. Helena. 1035.		Fanning Island. 805.	Sierra Leone. 834.	Entebbe. 844.	Malden Island. 905.	Tulagi. 969.	Ocean Island. 970.	Suva, Fiji. 1072.
		m/s.							
§ Resultant	135° (89)	..	120° (77)	225° (35)	240° (7)	..	..	70° (48)	90° (47)
§ Normal	141° (89)	††7·3	‖105° (73)	272° (22)	255° (33)	‖‖81° (81)	134° (47)	‖100° (43)	96° (53)

‖Normal refers to ½(9 + 21). ‖‖ Normal refers to 9h. ††Mean velocity of the South-East Trade Wind at 608 metres. §Direction and "Constancy." For explanation *see* Introduction.

STATE OF ICE IN THE ARCTIC SEAS AND IN THE NORTH ATLANTIC.—YEAR 1923.

‡‡*Kara Sea.*—The conditions were unusually favourable during the summer, no ice being observed in the sea in September, and the route from the north of Novaya Zemlya to the Jenissej River and Dickson Harbour being free of ice in both August and September.

‡‡*White Sea* did not become free of ice until the first days of June, but navigation was possible at Archangel as late as the end of November.

‡‡*Barents Sea.*—The state of the ice was unusually favourable throughout the year. In May the edge of the ice was lying much more northerly than usual, and in August the sea was free of ice up to Frans Joseph Land and also from east of here to the north point of Novaya Zemlya. It is unlikely that these waters have been so free of ice since 1897, when regular observations began.

‡‡*Spitsbergen* was circumnavigated this year and the ice conditions were particularly favourable, especially along the west coast, while lat. 80°40′ N. was reached in the north.

‡‡*Iceland.*—There was not much ice round the coasts during the summer and its appearance was sporadic.

‡‡*Greenland Sea and Denmark Strait.*—A narrow and closely packed ice belt prevented approach to the east coast of Greenland north of Angmagsalik during most of the year. At Angmagsalik the sea was completely covered with ice during the spring. In August more ice than usual was met with, so that even in September a vessel got stuck in the ice. The usual ice free season in October did not occur.

‡‡*N. Atlantic and Labrador.*—Two hundred and thirty-four icebergs were observed on the Newfoundland Banks, south of the 48th parallel, the normal being 406. To the north of the 48th parallel the icebergs were more numerous than usual up to May and had an unusual south-easterly drift; in July the conditions became normal. In and to the east of Belle Isle Strait icebergs were met with throughout the autumn.

‡‡*Davis Strait, Baffin Bay.*—There was less winter ice, west ice or "Storis" than usual early in the year. During the summer only a little ice passed round Cape Farewell so that there was much less ice than usual from there to Godthaab except in April, when the ice belt was wider than usual from Cape Farewell to Frederikshaab. From August the whole west coast was free of ice. The number of icebergs was about normal. There was less "middle pack" than normal in Baffin Bay. Much less ice than normal was met with in the Straits north of Canada. The first "Storis" of the new season rounded Cape Farewell in November, which is unusually early and the amount was exceptionally large.

‡‡*Bering Sea and Polar Sea.*—The position of the ice was about normal.

‡‡ *Isforholdene i de arktiske Have, 1923 and 1924*, published by the Danish Meteorological Institute.

RÉSEAU MONDIAL, 1923.

TABLE SHOWING THE AUTHORITIES FOR THE METEOROLOGY OF THE GLOBE FOR THE YEAR 1923, AND THE PERIOD OF THE NORMALS, TOGETHER WITH THE HOURS OF OBSERVATION (LOCAL MEAN TIME), FORMULÆ FOR MEANS, ETC.

Between Latitude 80° N. and 70° N. **P**=Barometric Pressure. **T**=½(M+*m*) Temperature. **T**=True Mean Temperature. **R**=Precipitation. **ZONE 1.**

No.	Name of Station.	Authority for Current Data.	Period of Normals.	Remarks.
105	Barrow	Washington D.C., U.S. Dept. Agric., Climatological Data, Alaska Section, 1923.	**T**, 12 yrs. **R**, 10 yrs.	c **P** (Jan., Feb., Apr. to July, Dec.)=½(7+19), (Oct. to Nov.)=19h.
123	Inglefield Bay	..	..	..
124				
125	Upernivik	Copenhagen, Dansk Meteor. Aarbog, 1923.	**P**, 1874-1920. **T**, **R**, 1873–1920.	e **P**=⅛(8+14+21). **T**=⅛[2(8+14)+5×21].
133	Germaniahavn	Do. do.	..	e Do. do.
135	Jan Mayen	Oslo, Jahrb. d. Norweg. Meteor. Instituts, 1924.	..	ek **P**=¼(2+8+14+19). This approximates to a 24 hr. mean. **T**=*n*−*k* (*n*=min.) where *n* is the mean of the three fixed daily observations, and *k* is a factor varying with the station and month.
139	Spitsbergen (Green Harbour)	Oslo, Jahrb. d. Norweg. Meteor. Instituts, 1923, 1924.	**P**, **T**, **R**, 1912–26.	e **P**=⅓(8+14+19). **T**=mean of 24 hrs. Absolute maximum taken from hourly readings.
140	Björnöen		..	ek **P**=⅛(8+14+19). **T**, see Jan Mayen, No.135.
141	Gjesvaer	Oslo, Jahrb. d. Norweg. Meteor. Instituts, 1923.	**P**, 1878–1920. **T**, 1861–1920. **R**, 1884–1920.	ek **P**=⅛(8+13+19). **T**, see Jan Mayen, No.135.
142	Mehavn	Do. do.	**P**, **R**, 25 yrs., 1898–1923. **T**, 1861–1920.	ek **P**=⅛(8+14+19). **T**, see Jan Mayen, No.135.
143	Vardo	Do. do.	**P**, (1851–1900). **T**, 1861–1920. **R**, 1893–1921.	ek Do. do.
147	Malye Karmakouly	MS. data supplied by Central Phys. Obs., Petrograd.	**P**, 16 yrs., 1896–1920. **T**, 31 yrs., 1876–1922. **R**, 10 yrs., 1896–1916.	e **P**=⅓(7+13+21). **T** derived from these hours.
148	Waigatz	Do. do.	**P**, (1871–95).	e Do. do.
153	Dickson	Do. do.	..	e **P**=⅓(7+13+21).

Between Latitude 70° N. and 60° N. **ZONE 2.**

203	Nome	Washington D.C., U.S. Dept. Agric., Climatological Data, Alaska Section, 1923, and Rep. of Chief of Weather Bureau, 1923–1924.	**P**, (1901–20). **T**, **R**, 19 yrs.	c **P**=½(6+17 to 18). **T**=¼(6+18+M+*m*).
204	Candle	Washington D.C., U.S. Dept. Agric., Climatological Data, Alaska Section, 1923.	**T**, 14 yrs.	..
205	Tanana	Do. do.	**P**, (1901–20). **T**, **R**, 25 yrs.	c **P**=½(7+16½ to 18¾).
206	Rampart	Do. do.	**T**, **R**, 19 yrs.	..
207	Valdez	Do. do.	**P**, (1901–20). **T**, **R**, 15 yrs., 1909–25.	a **P**=½(7+19).
208	Eagle	Do. do.	**P**, (1901–20). **T**, 25 yrs., 1882–1926. **R**, 25 yrs., 1882–1923.	c **P**=½(8+16 to 20).
209	Dawson	Toronto, Meteor. Service, Monthly Record of Meteor. Obs., 1923.	**P**, 25 yrs., 1901–26. **T**, 1902–26. **R**, 25 yrs., 1902–27.	bceq **P**=¼(8+16+20).
210	Carcross	Toronto, Meteor. Service, Monthly Record of Meteor. Obs., 1923, and MS. data.	**T**, 15 yrs. **R**, 1907–21.	..
211	Fort Good Hope	MS. data supplied by Canadian Meteor. Service, Toronto.	**R**, 1898–1922.	..
212	Fort Simpson	Do. do.	**P**, 1909–18. **T**, 25 yrs. **R**, 15 yrs., 1897–1917.	e **P**=⅓(8+16½).
213	Hay River	Do. do.	**P**, 1909–22; '25. **T**, 25 yrs. **R**, 1910–19.	e **P**=⅓(8+17).
225	Jacobshavn	Copenhagen, Dansk Meteor. Aarbog, 1923.	**P**, **T**, **R**, 1873–1920.	e **P**=⅛(8+14+21). **T**=⅛[2(8+14)+5×21].
226	Godthaab	Do. do.	**P**, 1873–1920. **T**, 1875–1920. **R**, 1873–1917.	e Do. do.
227	Ivigtut	Do. do.	**P**, 1878–1920. **T**, 1879–1920. **R**, 1875–1920.	e { Jan. to Mar., **P**=⅓(8+15+21) **T**=⅓[2(8+15)+5×21]. Apr. to Dec., **P**=⅓(8+14+21). **T**=⅓[2(8+14)+5×21].
229	Angmagsalik	Do. do.	**P**, **T**, 1894–1920. **R**, 25 yrs., 1897–1923.	e **P**=⅛(8+14+21). **T**=⅛[2(8+14)+5×21].
231	Stykkisholm	Reykjavik, Annuaire Météor. d'Islande, 1923.	**P**, 1845–1923. **T**, 1846–1900. **R**, 1856–1923.	ce Do. do.
232	Vestmanno	Do. do.	**P**, 1881–1923. **T**, 1878–1916. **R**, 1880–1923.	ce Do. do.
233	Grimsey	Do. do.	**P**, 1874–1918; '20–23. **T**, 1875–1916. **R**, 1874–88; '90–1919; '22–23.	ce Do. do.
234	Teigarhorn	Do. do.	**P**, 1872–1923. **T**, 1873–1916. **R**, 1873–1923.	ce Do. do.
235	Thorshavn	See No. 225.	**P**, 1872–1920. **T**, **R**, 1873–1922.	ce Do. do.
236	Lerwick	London, Monthly Weather Rep. of Meteor. Office, 1923.	**P**, 1871–1915. **T**, **R**, 1881–1915.	c **P**, **T**=¼(1+7+13+18).
237	Bergen (Met. Obs.)	Oslo, Jahrb. d. Norweg. Meteor. Instituts, 1923, and MS. data.	**P**, (1851–1900). **T**, 1861–1920. **R**, 1765–70; 1861–1921.	e **P**=⅛(8+14+19). **T**, see Jan Mayen, No.135.
238	Aalesund	Oslo, Jahrb. d. Norweg. Meteor. Instituts, 1923.	**P**, (1851–1900). **T**, 1861–1920. **R**, 43 yrs., 1867–1926.	ek Do. do.
239	Trondhjem	See No. 237.	**P**, (1851–1900). **T**, 1861–1920. **R**, 1885–1919.	e Do. do.
240 241	Bodo	See No. 238.	**P**, **R**, 1868–1920. **T**, 1861–1920.	ek Do. do.
242	Haparanda	Stockholm,, Statens Meteor.-Hydrogr. Anstalt, Arsbok, v, 1923.	**P**, 1860–1920. **T**, 1859–1920. **R**, 1869–1924.	ce **P**=½(8+14+21). **T** derived from these hours.
243	Helsingfors	Helsingfors, Jahrb. Meteor. Zentral-Anst., Pt. 1, 1923.	**P**, 1882–1920. **T**, 1829–1923. **R**, 1844–1924.	e **P**=mean of 24 hrs. **T**=¼(7+14+2×21).
243*a*	Kuopio	Do. do.	**P**, (1851–1900). **T**, 35 yrs, 1884–1919. **R**, 1886–1920.	e **P**=⅛(7+14+21). **T**=¼(7+14+2×21).

For notes *see* page 115.

ZONE 2—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
243	Kola	MS. data supplied by Central Phys. Obs., Petrograd.	P, 47 yrs., 1871–1920. T, 1876–1908; '10–15. R, 35 yrs., 1878–1915.	e	P=¼ (7+13+21). T derived from these hours.
244	Petrozavodsk	..	..		..
245	Arkhangelsk	MS. data supplied by Central Phys. Obs., Petrograd.	P, 1851–1917. T, 1813–1917. R, 1871–1917.	e	P=¼ (7+13+21). T derived from these hours.
246	Mezen	Do. do.	P, 1871–1908. T, 1883–1922. R, 1883–1923.	e	Do. do.
247	Oust-Tsylma	Do. do.	P, 26 yrs., 1890–1922. T, 25 yrs., 1890–1920. R, 27 yrs., 1889–1922.	e	Do. do.
248	Tcherdyn	Do. do.	P, (1851–1900). T, 25 yrs., 1847–48; '88–1915. R, 35 yrs., 1885–1923.	e	Do. do.
249	Berezov	Do. do.	P, 25 yrs., 1887–1920. T, 35 yrs., 1881–1920. R, 35 yrs., 1878–1920.	e	Do. do.
250	Obdorsk	Do. do.	P, 31 yrs., 1887–1918; '22. T, 36 yrs., 1882–1918; '22. R, 33 yrs., 1882–1922.	e	Do. do.
251	Sourgout	Do. do.	P, 33 yrs., 1887–1922. T, 37 yrs., 1884–1922. R, 35 yrs., 1884–1923.	ek	Do. do.
252					
253	Doudinka	MS. data supplied by Magn. and Meteor. Obs., Irkutsk.	P, T, 15 yrs., 1906–21. R, 15 yrs., 1906–22.	k	Do. do.
254	Touroukhansk	Do. do.	P, (1871–95). T, 35 yrs., 1843–44; '77–1920. R, 35 yrs., 1877–1922.	k	Do. do.
261	Viliouisk	Do. do.	T, 1898–1922. R, 25 yrs., 1898–1923.	k	T derived from ⅓ (7+13+21).
262	Iakoutsk	Do. do.	P, 33 yrs., 1888–1907; '11–26. T, 31 yrs., 1888–1920. R, 35 yrs., 1837–1918.	k	P=⅓ (7+13+21). T derived from these hours.
263	Verkhoiansk	..	..		..
271					
272					

ZONE 3. Table showing the Authorities for the Meteorology of the Globe between Latitude 60° N. and 50° N.

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
301	Atka	Washington, D.C., U.S. Dept. Agric., Climatological Data, Alaska Section, 1923.	..		..
302	St. Paul Island	Do. do.	P, (1901–20). T, 15 yrs. R, 23 yrs.	c	P=½ (6+18).
303	Dutch Harbor (Radio)	Washington, D.C., U.S. Dept. Agric., Climatological Data, Alaska Section, 1923, and Rep. of Chief of Weather Bureau, 1923–24.	P, (1901–20). T, 25 yrs., 1872; '78–86; 1905–25. R, 15 yrs., 1905–20.	c	P=½ (6+18). T=¼ (6+18+M+m).
304	Port Moller	See No. 301.	..		..
305	Dillingham	Do.	T, 12 yrs. R, 11–12 yrs.		..
306	Kodiak (Radio)	See No. 303.	P, (1901–20). T, 10 yrs. R, 16–21 yrs., 1898–1910; '13–20.	c	P=½ (7+19). T=¼ (7+19+M+m). R, (Feb., Mar., Yr.) interpolated from Experimental Station.
307	55°—50° N. 150°—145° W.	MS. data supplied by Chief of Weather Bureau, U.S. Dept. Agric., Washington.	P, T, Sea Temperature, see current data.		P, T, Sea Temp.=12 h., G.M.T.
309	Sitka	See No. 303.	P, (1901–20). T, 43 yrs., R, 61 yrs., 1842–1921.	c	P=½ (8+20). T derived from ¼ (8+20+M+m).
310	Prince Rupert	Toronto, Meteor. Service, Monthly Record of Meteor. Obs., 1923.	P, 1911–25. T, 1909–23. R, 1910–24.	bce	P=½ (5+17). T=¼ (5+17+M+m).
311	Barkerville	Do. do.	P, 25 yrs., 1899–1924. T, 35 yrs., 1888–1923. R, 37 yrs., 1888–1925.	bce	Do. do.
312	Kamloops	Do. do.	P, 1900–18. T, 1891–93; '95–1920. R, 1895–1920.	bce	P=½ (4½+16½). T=¼ (4½+16½+M+m). "b" refers to Apr. and Dec.
313	Calgary	Do. do.	P, 1894–1926. T, 1884–1923. R, 37 yrs., 1884–1920.	bce	P=½ (5½+17½). T=¼ (5½+17½+M+m).
314	Fort Chipewyan	Do. do.	P, 10 yrs., 1910–22. T, 35 yrs. R, 25 yrs.	be	P=½ (8+18). T derived from ⅓ (M+m).
315	Prince Albert	Do. do.	P, 1900–18. T, 1885–1925. R, 37 yrs., 1884–1920.	bce	P=½ (6+18). T=¼ (6+18+M+m). "b" refers to Feb. to Dec.
316	Qu' Appelle	Do. do.	P, 1892–1926. T, R, 1883–1920.	bce	P=½ (6+18). T derived from ⅓ (6+18+M+m). "b" refers to Feb. to Dec.
317	Minnedosa	Do. do.	P, 1895–1919. T, 35 yrs. R, 1883–1917.	bce	P=½ (7+19). T=¼ (7+19+M+m). "b" refers to Apr.
318	Berens River	Toronto Meteor. Service, Monthly Record, of Meteor. Obs., 1923, and MS. data.	T, 25 yrs. R, 1886–1920.		..
318a	Port Nelson	Do. do.	P, 10 yrs., 1915–25. T, 12 yrs. R, 11 yrs., 1915–27.	en	P=½ (7¾+18½).
319	Fort Hope	See No. 310.	P, 10 yrs., 1910–23. T, 17 yrs., 1901–19. R, 24 yrs., 1895–1924.	be	P=⅓ (9+21). T (Jan. to Oct.)=¼ (9+21+M+m). T (Nov.)=½ (9+21). Heights deduced from mean pressure.
320	Moose Factory	See No. 318.	P, 1891–1920. T, 35 yrs., 1890–1926. R, 22 yrs., 1895–1926.	e	P=¼ (9+14+19).
321	Fort George	MS. data supplied by Canadian Meteor. Service, Toronto.	..		T=¼ (9+21+M+m).
322	Mistassini Post	See No. 318.	T, R, 10 yrs., 1914–25.		..
324	Natashquan	See No. 310.	T, R, 10 yrs., 1914–25.		..
326	Belle Isle	See No. 321.	P, 1891–1920. T, 35 yrs., 1888–1923. R, 35 yrs.	c	P=½ (8¾+20¾). T=¼ (8¾+20¾+M+m).
331	55°—50° N. 30°—25° W.	MS. data supplied by Meteor. Institut, Oslo; Meteor. Inst. De Bilt and Meteor. Office, London.	Sea Temperature, 1855–1917. Marine Observer, vol. iii., 1926.		..
333	53°—48° N. 20°—15° W.	MS. data at M.O.	Sea Temperature, 1855–1917. Marine Observer, vol. iii., 1926.		..
333a	62°—57° N. 20°—15° W.	MS. data supplied by Dansk Meteorologiske Institut, Copenhagen.	Sea Temperature, 1876–1915.		..
334	Cahirciveen (Valentia Obs.)	London, Monthly Weather Rep. of Meteor. Office, 1923.	P, 1871–1915. T, 1881–1915. R, 1871–1920.		P, T=mean of 24 hrs.
335	Aberdeen	Do. do.	P, 1871–1915. T, 1881–1915. R, 1871–1920.		Do.
336	Greenwich	Do. do.	P, 1854–1920 T, R, 1881–1915.		Do.
337	Uccle	MS. data supplied by Inst. Roy. Météor. de Belgique.	P, 1833–1924. T, 1886–1920. R, 1887–1926.	e	Do.
338	De Bilt	Utrecht, K. Nederlandsch Meteor. Inst., Jaarboek, 1923.	P, T, R, 1849–1920.	ae	Do.
338a	Hamburg	Hamburg, D. Seewarte, Ergebn. der Meteor. Beob., 1923.	P, T, 1876–1910. R, 1867–1916.	e	P=⅓ (8+14+20). T (May to Aug.)=¼ (8+20+M+m) T (Sept. to Apr.) = 1/12 [5 (8+20)+2×14].

For notes *see* page 115.

ZONE 3—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
339	Copenhagen (Meteor. Inst.)	Copenhagen, Dansk Meteor. Aarbog, 1923.	P, 1842–1917. T, 1768–76; '82–88; '98–1920. R, 1820–1920.	ce	P =¼(8+14+21). T derived from these hours. Temp. and rainfall data refer to the Landbohøjskolen, 55° 41′ N., 12° 33′ E., 13 m.
340	Potsdam	Berlin, Ergebn. d. Meteor. Beob. in Potsdam, 1921–23.	P, 1851–1916. T, 1893–1917. R, 1877–1916.	e	P, T=mean of 24 hrs.
340a	Uppsala	Uppsala, Bull. mens. de l'Obs. Météor., 1923.	P, 1860–1920. T, 1855–1920. R, 1851–1924.	e	Do. do.
341	Warsaw	MS. data supplied by Inst. Centr. Météor., Warsaw.	P, 1885–1920.		P=⅛(7+13+21). T=mean of 24 hrs.
342	Tartu (Ülikooli)	Tartu, Meteor. Jahrb. für Eesti, 1923.	P, T, R, 1866–1915.	e	P, T=¼(1+4+7+10+13+16+19+22).
343	Petrograd	MS. data supplied by Central Phys. Obs., Petrograd.	P, T, 1871–1915. R, 90 yrs., 1778–97; 1835–1915.	e	P=¼(7+13+21). T derived from these hours.
344	Kiiv	MS. data supplied by Meteor. Obs. d. Univ., Kiiv.	P, 1871–1915. T, 1881–1915. R, 1856–1915.		Do. do.
344a	Moscow	See No. 343.	P, 1871–1915. T, 1881–1915. R, 61 yrs., 1853–1915.	e	Do. do.
345	Saratov	Do.	P, (1851–1900). T, 52 yrs., 1836–1915.	e	Do. do.
346	Kazan	Do.	P, T, 1881–1915. R, 1876–1925.	e	Do. do.
347	Orenburg	Do.	P, T, 1886–1920. R, 37 yrs., 1885–1922.	ek	P=¼(7+13+21). T derived from these hours. "k" refers to June.
348	Perm	Do.	P, 1885–1922. T, 1883–1922. R, 35 yrs., 1882–1917.	e	P=¼(7+13+21). T derived from these hours.
349	Sverdlovsk	Do.	P, T, 1881–1915. R, 1836–1922.	e	Do. do.
350	Tobolsk	Do.	P, 30 yrs., 1887–94; '97–1922. T, 33 yrs., 1884; '87–1922. R, 42 yrs., 1841–1922.	e	Do. do.
351	Akmolinsk	Do.	T, 35 yrs., 1881–1923. R, 36 yrs., 1873–1919.	k	T derived from ¼(7+13+21). "k" refers to Jan. to Mar.
352	Omsk	Do.	P, 27 yrs., 1887–1922. T, 31 yrs., 1885–1922. R, 35 yrs., 1875–1923.	e	P=¼(7+13+21). T derived from these hours.
353	Barnaoul	Do.	P, T, 1881–1915. R, 81 yrs., 1838–1922.	e	Do. do.
354	Tomsk	Do.	P, T, 1881–1915. R, 45 yrs., 1874–1922.	ek	Do. do.
355	Minousinsk	MS. data supplied by Magn. and Meteor. Obs, Irkutsk.	P, 28 yrs., 1889–1920. T, 35 yrs., 1885–1923. R, 31 yrs., 1874–1922.	k	Do. do.
356	Eniseisk	Do. do.	P, 32 yrs., 1889–1922. T, 1881–1915. R, 1871–1908; '11–13; '15–22.	k	Do. do.
357	Irkutsk	Do. do.	P, 1881–1926. T, 1881–1920. R, 1887–1921.		P=⅛(7+13+21). T=mean of 24 hrs.
358	Kirensk	Do. do.	P, 21 yrs., 1896–1918. T, 26 yrs., 1892–1918. R, 27 yrs., 1892–1922.	k	P=⅛(7+13+21). T derived from these hours.
359	Tchita	..	..		..
360	Nertchinskii Zavod	..	..		..
361	Tygan Ourkan	See No. 343.	P, 1911–13; '15–21. T, R, 1910–13; '15–20.	e	P=⅛(7+13+21). T derived from these hours.
362	Blagovyeshchensk (Bureau Meteor.).	Do.	P, 25 yrs., 1890–1921. T, 35 yrs., 1881–1921. R, 29 yrs., 1877–1920.	e	Do. do.
363	Nikolaevsk-sur-Amour	..	..		..
364	Petropavlovsk (Phare)	See No. 343.	P, 19 yrs., 1891–1922. T, 25 yrs., 1890–1922. R, 29 yrs., 1846–1922.	e	P=⅛(7+13+21). T derived from these hours.

Table showing the Authorities for the Meteorology of the Globe between Latitude 50° N. and 40° N. **ZONE 4.**

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
441	Victoria, B.C.	Toronto, Meteor. Service, Monthly Record of Meteor. Obs., 1923.	P, 1900–24. T, R, 1891–1925.	be	P, T=mean of 24 hrs. "b" refers to Apr.
442	Portland, Oregon	Washington, D.C., U.S. Dept. Agric., Rep. of Chief of Weather Bureau, 1923–24, and Monthly Weather Rev., 1923.	P, T, 1873–1923. R, 1871–1922.	nq	P, T=½(8+20) reduced to mean of 24 hrs.
443	Macleod	See No. 411.	T, 25 yrs., 1895–1921. R, 25 yrs., 1895–1920.		T derived from ½ (M+m).
444	Helena	See No. 412.	P, 1882–1923. T, R, 1880–1923.	nq	P, T=½(8+20) reduced to mean of 24 hrs.
444a	Salt Lake City	Do.	P, T, 1875–1923. R, 1874–1923.	nq	Do. do.
445	Cheyenne	Do.	P, T, 1873–1923. R, 1871–1922.	nq	Do. do.
446	North Platte	Do.	P, T, 1875–1923. R, 1874–1922.	nq	Do. do.
446a	Bismarck	Do.	P, T, 1875–1923. R, 1874–1923.	nq	Do. do.
447	Winnipeg	See No. 411.	P, R, 1886–1920. T, 1873–1920.	bce	P=⅛(7+14+19). T=¼ (7+19+M+m). "b" refers to Feb. to Dec.
448	Duluth	See No. 412.	P, see current data. T, 1904–18. R, 1871–1923.	n	P, T=½(8+20) reduced to mean of 24 hrs.
449	Port Arthur	See No. 411.	P, 1900–24. T, 38 yrs. R, 1881–1915.	bce	P=⅛(7+14+19). T=¼(7+19+M+m). "b" refers to Mar. to Dec.
450	Chicago	See No. 412.	P, T, 1873–1923. R, 1871–1923.	nq	P, T=½(8+20) reduced to mean of 24 hrs.
451	Toronto	See No. 411.	P, 1886–1921. T, 1873–1920. R, 1874–1920.	e	P, T=mean of 24 hrs.
452	New York (Central Park)	New York, Rep. of Meteor. Obs., Central Park, 1923.	P, 51 yrs., 1868–1920. T, R, 1868–1924.	enq	P=⅛(7+14+21). T=mean of 24 hrs.
453	St. John, N.B.	See No. 411.	P, 1902–26. T, 45 yrs. R, 1861–1910.	ce	P=⅛(9+15+21). T=mean of 24 hrs.
454	S.W. Point, Anticosti	See No. 411 and MS. data.	P, T, R, 1882–1920.	ce	P=⅛(8½+15½+20½). T=⅛(8½+20½+M+m).
454a	Sable Island (Main Station)	Do.	P, R, 35 yrs., 1891–1926. T, 25 yrs., 1898–1923.	be	P=⅛(9+14+21). T=⅛(9+21+M+m). "b" refers to Jan. to Nov.
455	Port aux Basques	See No. 411.	P, T, R, 1909–23.	bce	P=⅛(9+21). T=⅛(9+21+M+m). "b" refers to Jan., Apr., Sept., Nov., Dec.
456	St. John's, Newfoundland	Do.	P, 35 yrs.. 1886–1921. T, 1872–1920. R, 1874–1920.	bce	P=⅛(9+21). T=⅛(9+21+M+m). "b" refers to Jan. to Sept., Nov.
460	50°–45° N. 35°–30° W.	MS. data at M.O.	Sea Temperature, 1855–1917. Marine Observer, vol. iii, 1926.		..
461	Madrid	Madrid, Res. Obs. efect. en las Estaciones del Servicio Meteor. Espagñol, 1923.	P, T, 1901–15. R, 15 yrs., 1901–16.	e	P=⅛(7+13+18). T derived from ⅜(7+18).

For notes *see* page 115.

ZONE 4—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
436	Nantes	Paris, Bull. Mens. de l'Office National Météor. de France, 1923, and MS. data.	P, T, R, 1881–1920.		P, T=$\frac{1}{8}$ (3+6+9+12+15+18+21+24).
437	Paris (Parc St. Maur)	Do. do.	P, T, 1874–1923. R, 1820–1910.		P, T=mean of 24 hrs.
438	Marseille	Marseille, Commission de Météor. du Bouches du Rhône, Bull. Ann., 1923, 1924.	P, T, R, 1871–1920.	c	P=$\frac{1}{6}$ (7+10+12+16+18+22). T derived from these hours.
438*a*	Zürich	Zürich, Ann. Schweiz. Meteor. Zentralanst, 1923.	P, T, R, 1864–1920.	e	P, T=mean of 24 hrs.
439	Rome	MS. data supplied by R. Uff. Centr. Meteor. e. Geodin, Rome.	P, 1858–1924. T, 1811–23 '25–1924. R, 1782–1924.		P=$\frac{1}{3}$ (9+15+21). T derived from $\frac{1}{4}$ (9+21+M+*m*).
440	Vienna	Wien. Jahrb. d. Zentralanst für Meteor. und Geodyn, 1923.	P, R, 1851–1920. T, 1775–1920.	e	P, T=mean of 24 hrs.
440*a*	Budapest	Budapest, Jahrb. d. K. ung. Reichsanst, für Meteor. und Erdmagn., 1923.	P, T, R, 1871–1920.	e	Do. do.
441	Sofia	Sofia, Bull. Mens. de l'Inst. Météor., 1923.	P, 1918–27. T, R, 1892–1926.	e	P=$\frac{1}{3}$ (7+14+21). T=$\frac{1}{4}$ (7+14+2×21).
442	Bucharest	București, Bul. Lunar al Obs. Meteor. din România, 1923.	P, 1881–1924. T, 1857–1924. R, 1864–1924.	e	P, T=mean of 24 hrs.
443	Odessa (Observatory)	MS. data supplied by Director, Meteor. Service, Ukraine.	P, T, 1881–1922. R, 69 yrs., 1841–1915.		P=$\frac{1}{3}$ (7+13+21). T derived from these hours.
444	Kharkiv (University)	Do. do.	P, (1851–1900). T, 36 yrs., 1877–1915. R, 38 yrs., 1877–1915.		Do. do.
444*a*	Novorossiisk	MS. data supplied by Central Phys. Obs., Petrograd.	P, 38 yrs., 1881–1922. T, 1891–1922. R, 1892–1914; '16–22.	e	Do. do.
445	Tiflis	Tiflis, Bull. Météor. Mens. de l'Obs. Phys. de la Georgie, 1923, and MS. data.	P, 1881–1922. T, 1881–1915. R, 78 yrs., 1844–1922.		P=mean of 24 hrs. T derived from $\frac{1}{4}$ (7+13+21).
446	Astrakhan	See No. 444a.	P, T, 1881–1915. R, 68 yrs., 1846–1915.	e	P=$\frac{1}{3}$ (7+13+21). T derived from these hours.
447	Fort Alexandrovsk	Do.	P, 22 yrs., 1882–1922. T, 35 yrs., 1882–1918. R, 47 yrs., 1848–1922.	e	Do. do.
448	Krasnovodsk	Do.	P, 35 yrs., 1883–1923. T, 35 yrs., 1883–1922. R, 33 yrs., 1870–1922.	e	Do. do.
449	Kasalinsk	MS. data supplied by Meteor. Inst. Tashkent.	P, 1894–1908; '21. T, 35 yrs., 1855–1921. R, 35 yrs., 1862–1906.	e	Do. do.
450	Tashkent	Do. do.	P, T, 1881–1915. R, 1877–86; '92–1908; '10–'13; '15–22.	e	Do. do.
451	Narynskoe	..	..		..
452	Alma Ata	See No. 449.	P, 36 yrs., 1881–1918; '22. T, 33 yrs., 1885–1922. R, 39 yrs., 1879–1922.	e	P=$\frac{1}{3}$ (7+13+21). T derived from these hours.
461	Moukden	Tokyo, Ann. Rep. Centr. Meteor. Obs., Japan, 1923.	P, T, 1906–20. R, 18 yrs., 1906–24.	ce	P, T=$\frac{1}{6}$ (2+6+10+14+18+22).
462	Joshin	Do. do.	P, T, R, 1906–20.	ce	Do. do.
463	Yuki	Do. do.	P, T, R, 10 yrs., 1914–24.	ce	Do. do.
464	Vladivostok	See No. 444a.	P, 1876–1921. T, R, 1873–1921.	e	P=$\frac{1}{3}$ (7+13+21). T derived from these hours.
465	Ochiai	See No. 461.	P, T, R, 15 yrs., 1908–23.	ce	P, T=$\frac{1}{6}$ (2+6+10+14+18+22).
466	Nemuro	Do.	P, 1886–1920. T, R, 1884–1920.	e	P, T=mean of 24 hrs.
466*a*	Syana	Do.	P, T, R, 1902–27.	ce	P, T=$\frac{1}{6}$ (2+6+10+14+18+22).

ZONE 5. Table showing the Authorities for the Meteorology of the Globe between Latitude 40° N. and 30° N.

508	35°—30° N. 145°—140° W.	MS. data supplied by Chief of Weather Bureau, U.S. Dept. Agric., Washington.	P, T, Sea Temperature, see current data.		P, T, Sea Temp.=12h., G.M.T.
511	San Francisco	Washington, D.C., U.S. Dept. Agric., Rep. of Chief of Weather Bureau, 1923–24, and Monthly Weather Rev., 1923.	P, T, 1873–1923. R, 1850–1925.	nq	P, T=$\frac{1}{3}$ (8+20) reduced to mean of 24 hrs.
512	San Luis Obispo	Do. do.	P, T, 1895–1923. R, 1870–1925.	nq	Do. do.
513	San Diego	Do. do.	P, T, 1873–1923. R, 1850–1923.	nq	Do. do.
514	Modena	Do. do.	P, T, R, 1901–25.	nq	Do. do.
515	Santa Fé	Do. do.	P, 1873–80; '82; '85–1923. T, 1873–82; '85–1923. R, 67 yrs., 1850–1923.	nq	Do. do.
516	Denver	Do. do.	P, T, 1873–1923. R, 1872–1923.	nq	Do. do
517	Abilene	Do. do.	P, T, 1886–1923 R, 1885–1922.	nq	Do. do.
518	Saint Louis	Do. do.	P, T, 1873–1923. R, 1837–1923.	nq	Do. do.
519	Mobile	Do. do.	P, T, 1873–1923. R, 1871–1922.	nq	Do. do.
520	Nashville	Do. do.	P, T, 1873–1923. R, 1871–1922.	nq	Do. do.
521	Charleston	Do. do.	P, T, 1873–1923. R, 1871–1922.	nq	Do. do.
522	Washington	Do. do.	P, T, 1873–1923. R, 1871–1925.	nq	Do. do.
523					
524	Bermuda	Toronto, Monthly Record of Meteor. Obs., 1923, and MS. data.	P, T, R, 54 yrs., 1866–1920.	be	P=$\frac{1}{3}$ (8$\frac{1}{2}$+15). This approximates to a 24 hr. mean. T=$\frac{1}{4}$ (8$\frac{1}{2}$+20$\frac{1}{2}$+M+*m*). "b" refers to Apr.
530	Santa Cruz (Flores)	MS. data supplied by Director, Meteor., Service, Azores.	P, 1907–22. T, R, 1911–25.		P=mean of 24 hrs. T derived from $\frac{1}{2}$ (M+*m*).
531	Horta	Do. do.	P, T, R, 1902–26.		P, T=mean of 24 hrs.
532	Ponta Delgada	Do. do.	P, T, 1894–1923.		Do. do.
532*a*	Faja da Cima	Do. do.	R, 1894–1923.		.. ..
533	Madeira (Funchal)	MS. data supplied by Obs. Centr. Meteor. Lisbon.	P, T, R, 1880–1920.		P=$\frac{1}{3}$ (9+15+21). T=$\frac{1}{4}$ (9+21+M+*m*). The pressures appear about 1 mb. too high. This correction has been applied.
534					
535	Lisbon	Do. do.	P, 1871–1919. T, R, 1864–1920.		P=$\frac{1}{3}$ (9+15+21). T=mean of 24 hrs.
535*a*	Melilla	Madrid, Res. Obs. efect. en las Estaciones del Servicio Meteor. Espagñol, 1923.	P, T, R, (1908–22).	e	P (Jan. to Apr.)=$\frac{1}{3}$ (8+16). (Oct. to Dec.)=$\frac{1}{3}$ (7+13+18). T derived from $\frac{1}{2}$ (M+*m*).
536	Gibraltar	MS. data at M.O.	P, T, R, 1852–1920.	c	P=$\frac{1}{3}$ (7+13+21). T=$\frac{1}{4}$ (7+13+2×21).
536*a*	Colomb-Béchar	MS. data supplied by l'Office National Météor., Paris.	..	ce	P=$\frac{1}{3}$ (7+13+18). T=$\frac{1}{4}$ (7+13+18+*m*).
537	Palma	See No. 535*a*.	P, T, R, 1866–1921.	e	P=$\frac{1}{3}$ (8+13+18).
538	Algiers (Bouzaréah)	MS. data supplied by l'Office National Météor., Paris.	P, T, R, 1894–1920.	e	P=$\frac{1}{3}$ (7+13+18). T derived from these hours.

For notes *see* page 115.

ZONE 5—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
539	Tunis	Tunis, Service Météor., Relevé des Obs., 1923.	T, 1887–90; '92; '96–1920. R, 35 yrs., 1887–90; '92; '95–1925.	e	P=$\frac{1}{3}$ (7+13+19). T derived from $\frac{1}{4}$ (7+13+19+$\frac{19+m}{2}$).
539*a*	Malta	MS. data at M.O.	P, 1852–1923. T, 1853–1923. R, 70 yrs., 1853–1923.	c	P=$\frac{1}{3}$ (7+18). T derived from $\frac{1}{2}$ (M+*m*).
540	Riposto	Riposto, Osservatorio Meteor., Bollettino Mensile, 1923.	P, 1898–1922. T, 1875–1919. R, 1880–1914.		P=$\frac{1}{3}$ (9+15+21). T derived from these hours.
541	Athens	Athens, Res. Mens. des Obs. des Stations Météor. de Grèce, 1923, and MS. data.	P, 71 yrs., 1839–1923. T, R, 1858–1923.	e	P, T=mean of 24 hrs.
542	Alexandria	MS. data supplied by Phys. Dept., Cairo.	P, 1888–1922. T, 1870–1922. R, 1889–1923.	c	P=$\frac{1}{3}$ (8+14+20). T derived from $\frac{1}{4}$ (8+14+20+*m*).
543	Nicosia (P.W.D.)	Do. do	P, T, R, 1907–21.	ac	P=$\frac{1}{3}$ (8+15).
544	Beirut	Beirut Monthly Bull., 1923.	P, T, 1875–1924. R, 1876–1924.	c	P=$\frac{1}{3}$ (8$\frac{1}{2}$+14$\frac{1}{2}$+20$\frac{1}{2}$). T=$\frac{1}{8}$ (8$\frac{1}{2}$+14$\frac{1}{2}$+20$\frac{1}{2}$+2×M+3*m*).
545	Hinaidi	MS. data at M.O.	P, 1896–1910.		P=8h. T derived from this hour.
546	Lenkoran	MS. data supplied by Central Phys. Obs., Petrograd.	P, 1881–1915. T, 1870–84; '92–1915. R, 1847–56; '73–1915.	ek	P=$\frac{1}{3}$ (7+13+21). T derived from these hours.
547	Tehran	Calcutta, India Weather Review, 1923, and MS. data.	T, 1895–1910. R, see current data.	a	T derived from $\frac{1}{2}$ (M+*m*).
548	Meshed	Do. do.	T, 17 yrs., 1891–94; 1905–18; '20. R, see current data.	a	P=8h.
549	Seistan	Do. do.	R, see current data.	a	.. ..
550	Quetta	Do. do.	P, R, see current data. T, 1878–1920.	aq	P=8h. T derived from $\frac{1}{2}$ (M+*m*).
551	Peshawar	Do. do.	P, R, see current data. T, 1878–1910.	aq	Do. do.
551*a*	Lahore	Do. do.	P, T, R, see current data.	aq	Do. do.
552	Simla	Do. do.	P, R, see current data. T, 1876–1920.	aq	Do. do.
552*a*	Leh	Do. do.	P, R, see current data. T, 43 yrs., 1875–79; '82–1920.	aq	Do. do.
559	Hankow	Tokyo, Ann. Rep. Centr. Meteor. Obs., Japan, 1923.	P, T, 1906–20. R, 39 yrs., 1875–1919.	ce	P=$\frac{1}{6}$ (6+14+22). T derived from these hours.
560	Tientsin	Do. do.	P, T, 1905–20. R, 18 yrs., 1906–24.	ce	Do. do.
561	Shanghai (Zi-ka-Wei)	Zi-Ka-Wei, Revue Mensuelle de l'Observatoire, 1923.	P, T, 1873–1920. R, 1873–1924.		P, T=mean of 24 hrs.
562	Jinsen (Chemulpho)	Jinsen, Ann. Rep. Meteor. Obs. Tyôsen, 1923.	P, 35 yrs., 1888–1923. T, 1888–1922. R, 1904–23.		Do.
562*a*	Nagasaki	See No. 559.	P, 1886–1920. T, R, 1879–1920.	e	Do.
563	Kyoto	Do.	P, 1881–1915. T, R, 1881–1920.	ce	P, T=$\frac{1}{6}$ (2+6+10+14+18+22).
564	Tokyo	Do.	P, 1886–1920. T, R, 1876–1920.	e	P, T=mean of 24 hrs.
565	Kanayama	Do.	P, T, R, 1898–1922.	ce	P, T=$\frac{1}{6}$ (2+6+10+14+18+22).
565*a*	Miyako	Do.	P, 1886–1920. T, R, 1884–1920.	ce	Do. do.

Table showing the Authorities for the Meteorology of the Globe between Latitude 30° N. and 20° N. ZONE 6

601	Midway Island	Washington, D.C., U.S. Dept. Agric., Monthly Weather Rev., 1925, p. 357, and MS. data.	P, 1912–24.	d	P=18$\frac{1}{2}$ h.
605	Honolulu	Washington, D.C., U.S. Dept. Agric., Rep. of Chief of Weather Bureau, 1923–24.	P, 1905–21. T, 1883–1920. R, 1874–1920.	e	P=$\frac{1}{3}$ (8+20). T=$\frac{1}{4}$ (8+20+M+*m*). (157$\frac{1}{2}$° W. Meridian time).
614	La Paz	MS. data supplied by Director, Obs. Meteor., Tacubaya.	..	er	P=$\frac{1}{3}$ (7+14+21).
615	Chihuahua	Do. do.	T, (1901–10). R, 15 yrs., 1901–11; '17–21.	er	P=$\frac{1}{3}$ (7+14+21). T derived from these hours.
616	Leon	Do. do.	P, T, 35 yrs., 1879–1923. R, 37 yrs., 1878–1920.	eqr	Do. do.
616*a*	Monterry	Do. do.	P, 1886–88; '96–99; 1905–24. T, 1886–88; '96–99; 1905–22. R, 25 yrs., 1885–1924.	er	Do. do.
617	Tulancingo	Do. do.	T, R, 1911–14; '16–21.	r	Do. do.
618	Galveston	Washington, D.C., U.S. Dept. Agric., Rep. of Chief of Weather Bureau, 1923–24, and Monthly Weather Rev., 1923.	P, T, 1873–1923. R, 1871–1924.	nq	P, T=$\frac{1}{3}$ (8+20) reduced to mean of 24 hrs.
618*a*	New Orleans	Do. do.	P, see current data. T, 1873–1923. R, 1836; '39–60; '68; '70–1922.	n	Do. do.
619	Merida, Yuc.	See No. 614.	P, 28 yrs., 1894–1924. T, R, 25 yrs., 1895–1924.	er	P=$\frac{1}{3}$ (7+14+21). T derived from these hours.
620	Havana	Habana, Obs. Méteor. del Colegio de Belen, 1923.	P, 1858–1925. T, 1897–1923. R, 1898–1923.		P=$\frac{1}{16}$ (4+6+8+10+12+14+16+18+20+22). T=$\frac{1}{16}$ [(4+6+8+10+12+14+16+18+20+22)+(4+22)].
620*a*	Key West	See No. 618.	P, T, 1873–1923. R, 1871–1922.	nq	P, T=$\frac{1}{3}$ (8+20) reduced to mean of 24 hrs.
621	Nassau, Bahamas	Bahamas Blue Book, 1923.	P, 45 yrs., 1871–91, '95–1920. T, (Jan. to Apr., Yr.), 1905–19. T, (May to Dec.), 43 yrs., 1874–91; '95–1920. R, 55 yrs., 1855–62; '68–1920.	n	P=$\frac{1}{3}$ (8+15). T (Jan. to Apr., Yr.)=$\frac{1}{3}$ (8+15). T (May to Dec.) derived from $\frac{1}{2}$ (M+*m*). The pressures appear about 1.5 mb. too low. This correction has been applied.
622	Watling Island	MS. data at M.O.	P, (1873–99).	ekl	P, T=$\frac{1}{8}$ (2+8+12+16+22).
623	Izaña	Madrid, Res. Obs. efect. en las Estaciones del Servicio Meteor. Espagñol, 1923.	T, (1914–23).		P=$\frac{1}{3}$ (7+13+18). T derived from these hours.
624	La Laguna	Do. do.	P, (1880–1920). T, R, 1885–1900; '11–20.	de	P=$\frac{1}{3}$ (7+13+18).
625	Siwa	MS. data supplied by Phys. Dept., Cairo.	..	ac	P=8h.
626	Cairo (Helwan)	Do. do.	P, 1904–20. T, R, 1904–22.	c	P=$\frac{1}{3}$ (8+14+20). T derived from $\frac{1}{4}$ (8+14+20+*m*).
626*a*	Aswan	Do. do.	P, T, 1901–20.	cf	P=$\frac{1}{3}$ (8+14+20). T=$\frac{1}{4}$ (8+14+20+*m*). No rain-gauge, as rainfall is practically unknown.
644	Tor	Do. do.	P, T, 1905–20.	cf	P=$\frac{1}{3}$ (8+14+20). T=$\frac{1}{4}$ (8+14+20+*m*).
647	Bushire	Calcutta, India Weather Review, 1923, and MS. data.	P, R, see current data. T, 43 yrs., 1876–1920.	aq	P=8h. T derived from $\frac{1}{2}$ (M+*m*).
648	Jask	Do. do.	P, R, see current data. T, 27 yrs., 1893–1920.	aq	Do. do.
649	Karachi	Do. do.	P, R, see current data. T, 1905–19.	aq	Do. do.
650	Jacobabad	Do. do.	P, R, see current data. T, 1878–1910.	aq	Do. do.

For notes *see* page 115.

ZONE 6—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.	Remarks.
651	Jaipur	Calcutta, India Weather Review, 1923, and MS. data.	**P, T, R,** see current data.	aq **P**=8h. **T** derived from ½ (M+*m*).
652	Nagpur	Do. do.	**P, R,** see current data. **T,** 1875–1920.	aq Do. do.
653	Allahabad	Do. do.	**P, R,** see current data. **T,** 1876–1920.	aq Do. do.
653*a*	Darjeeling	Do. do.	**P, R,** see current data. **T,** 1890–1910.	aq Do. do.
654	Calcutta	Do. do.	**P, T, R,** see current data.	aq Do. do.
655	Gauhati	Do. do.	**P, R,** see current data. **T,** 1902–20.	aq Do. do.
655*m*	Cherrapunji	Do. do.	**P, R,** see current data. **T,** 1902–20.	adq **P**=8h.
655*a*	Akyab	Do. do.	**P, R,** see current data. **T,** 1878–1920.	aq **P**=8h. **T** derived from ½ (M+*m*).
656	Mandalay	Do. do.	**P, R,** see current data. **T,** 1889–1910.	aq Do. do.
656*a*	Tengyueh	MS. data supplied by Chinese Maritime Customs.	**P, T, R,** 1914–23.	ae **P**=½ (3+6+9+12+15+21). **T** derived from ½ (M+*m*). **P, T**=mean of bi-hourly observation.
657	Phu Lien	MS. data supplied by l'Observatoire Centr. de l'Indochine.	**P, T,** 1907–21. **R,** 1907–26.	
658	Moncay	Do. do.	**P,** 1907–21. **T, R,** 1907–26.	
659	Hongkong	Hongkong, Royal Observatory, Monthly Meteor. Bull., 1923.	**P, T,** 1884–1920. **R,** 1884–1924.	c **P**=½ (10+16). **T** derived from these hours. **P, T**=mean of 24 hrs.
660	Amoy	MS. data at M.O.	**P,** 15 yrs., 1894–1901, 14–22. **T,** 1890–1912. **R,** 35 yrs., 1880–1924.	ce **P**=½ (9 + 18). **T** derived from ½ (M+*m*). Max. temp. refers to period 9h. to 18h. and min. to 18h. to 9h.
661	Taihoku, Formosa	Tokyo, Ann. Rep. Centr. Meteor. Obs., Japan, 1923.	**P,** 25 years, 1897–1922. **T, R,** 1897–1921.	e **P, T**=mean of 24 hrs.
661*a*	Basco	Manila, Weather Bureau, Monthly Bull., 1923 and MS. data.	**P, T,** 1903–17. **R,** 16 yrs., 1903–19.	c **P**=½ (6 + 14). **T** derived from these hours.
662	Naha	See No. 661.	**P, T, R,** 1891–1925.	e **P, T**=mean of 24 hrs.
665	Titizima (Bonin Islands)	Do.	**P, T, R,** 1906–21.	ce **P, T**=⅛ (2+6+10+14+18+22).

ZONE 7.

Table showing the Authorities for the Meteorology of the Globe between Latitude 20° N. and 10° N.

715	Colima	MS. data supplied by Director, Obs. Meteor., Tacubaya.	**T,** (1901–10).	e **P**=⅛ (7+14+21). **T** derived from these hours. Hb. redetermined as 498 mm.
716	Morelia	Do. do.	**T,** (1901–10).	e **P**=⅛ (7+14+21). **T** derived from these hours.
717	Mexico, Tacubaya	Tacubaya, Servicio Meteor. Mexicano, Res. Mens., 1923.	**P,** 1917–26. **T,** 1900–14; '17–26. **R,** 1900–24.	q **P, T**=mean of 24 hrs.
718	Salina Cruz	See No. 715.	**P, T,** 1908–12; '17–21. **R,** 1903–13; '16–19.	e **P**=⅛ (7+14+21). **T** derived from these hours.
719	San Salvador	San Salvador, Anales del Obs. Meteor., 1923.	**P,** 1911–25. **T, R,** 1912–26.	e **P**=⅛ (7+14+21). **T**=¼ (7+14+2×21).
720	Belize	MS. data at M.O.	**P, R,** 1917–27. **T,** 1895–1905; '11–13.	cde **P**=6h.
721	Jamaica (Negril Pt.)	Jamaica Blue Book, 1923.	**P,** (1876–1915). **T,** 1898–1922. **R,** 1895–1919.	c **P, T**=½ (7+15) reduced to mean of 24 hrs.
722	Port au Prince	MS. data supplied by l'Office National Météor, Paris.	**P,** 1865–69; '88–1925. **T,** 1864–69; '88–1925. **R,** 49 yrs., 1863–69; '83–1925.	ce **P**=⅛ (7+13+21). **T** derived from ¼ (7+13+2×21).
723	Caracas	Caracas, Red Meteor. de Venezuela. Res. de las Obs., 1923.	**P,** 1893–1927. **T,** 1895–1927. **R,** 1891–1925.	eq **P**=½ (10+16), 67½° W. meridian time which approximates to the mean of 24 hrs. **T**=¼ $\left(6+12+18+\frac{24+0}{2}\right)$.
724	Montserrat	MS. data at M.O.	**P,** (1876–1915). **T, R,** 1915–24.	de **P**=½ (9+15).
724*a*	Grenada (Richmond Hill)	Grenada, Govt. Gazette, 1923.	**P, R,** 1891–1925. **T,** 1887; '91–1924.	e **P**=½ (9+18). **T** derived from ½ (M+*m*). A correction of −1·0 mb. has been applied to the pressure values.
725	Barbados	Barbados Blue Book, 1923.	**P,** (1876–1915). **T,** 1916–1925. **R,** 1853–62; '65–1920.	c **P**=½ (9+15). **T** derived from these hours. Max. temp. refers to period 9h. to 15h., and min. to 15h. to 9h.
731	São Vicente, C. Verde Is.	MS. supplied by Obs. Centr. Meteor., Lisbon.	**P, R,** 35 yrs., 1884–1921. **T,** 1901–19.	**P**=⅛ (9+15+21). **T**=¼ (9+21+M+*m*).
732	San Tiago, C. Verde Is.	Do. do.	**P,** 25 yrs., 1893–1900; '04–21. **T,** 1890–1900; '04–19. **R,** 1888–1900; '04–19.	**P**=⅛ (9+15+21). **T**=¼ (9+21+M+*m*).
733	Bathurst	Gambia Blue Book, 1923.	**P,** 1914–23. **T,** 23 yrs., 1891–1900; '07–25. **R,** 1884–1920.	e **P**=9h. **T** derived from ½ (M+*m*).
734	M'Carthy Island	Gambia Blue Book, 1923, and MS. data supplied by Governor of the Gambia.	**T,** 15 yrs., 1896–1917. **R,** 10 yrs., 1897–1924.	.. ..
735	Niénébalé	Dakar, Journal Offic. de l'Afrique occid. française, 1923.	**T,** 15 yrs., 1907–23. **R,** 1904–28.	**T** derived from ½ (M+*m*).
736	Timbuktu	MS. data supplied by l'Office National Météor, Paris.	**P,** (1877–1920). **T,** (Jan. to July). **T** (Aug. to Dec., Yr.), 1917–26. **R,** 10 yrs., 1916–26.	e **P, T** (Aug. to Dec., Yr.)=9h. to July) derived from ½ (M+*m*).
737	Sokoto	MS. data at M.O.	**T,** 15 yrs., 1907–24. **R,** 15 yrs., 1904–20.	**T** derived from ½ (M+*m*).
738	Kaduna Capital	Do.	**T,** 15 yrs., 1906–21. **R,** 1904–28.	Do. do.
739	Hadeija	Do.	.. ..	.. ..
740	Maiduguri	Do.	**P, T,** 1901–20. **R,** 1902–20.	c **T**=¼ (8+14+20+*m*).
741	El Fasher	MS. data supplied by Phys. Dept., Cairo.	**P,** 1903–22. **T,** 1901–22. **R,** 1899–1923.	cg **P**=⅛ (8+14+20). **T**=¼ (8+14+20+*m*).
743	El Obeid	Do. do.	**P, T,** 1905–20. **R,** 1906–20.	c **P**=⅛ (8+14+20). **T** derived from ¼ (8+14+20+*m*).
743*a*	Khartoum	Do. do.	**P, T,** 1908–22. **R,** 1906–20.	cg **P**=⅛ (8+14+20). **T**=¼ (8+14+20+*m*).
744	Port Sudan	Do. do.	**P, R,** see current data. **T,** 39 yrs., 1880–1920.	ce **P**=⅛ (8+20). **T**=¼ (8+20+M+*m*).
745	Berbera, Somaliland	MS. data at M.O.	**P, R,** see current data. **T,** 1878–1920.	aq **P**=8h. **T**=mean of 24 hrs.
746	Aden	Calcutta, India Weather Review, 1923, and MS. data.		
751	Bombay	Calcutta, India Weather Review, 1923, MS. data and Bombay Magn. Meteor. and Seism, Obs., 1923.	**P, R,** see current data. **T,** 21 yrs., 1899–1920.	aq **P**=8h. **T** derived from ½ (M+*m*).
752	Kodaikanal	See No. 746.	**P, T, R,** see current data.	aq Do. do.
752*a*	Bangalore	Do.	**P, T, R,** see current data.	aq Do. do.
753	Madras	Do.		

For notes *see* page 115.

ZONE 7—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.	Remarks.
754	Vizagapatam	See No. 746.	**P, R,** see current data. **T,** 15 yrs., 1888–99; 1918–21.	aq **P**=8 h. **T** derived from ½ (M+*m*).
755	Port Blair	Do.	**P, R,** see current data. **T,** 1867–1920.	aq Do. do.
756	Rangoon	Do.	**P, R,** see current data. **T,** 1876–1920.	aq Do. do.
757	Saigon (Cap St. Jacques)	MS. data supplied by l'Observatoire Centr. de l'Indochine.	**P,** 1907–20; '23; **T, R,** 1907–26.	cd **P**=½ (10+16).
758	Nhatrang	Do. do.	**P,** 1907–21. **T, R,** 1907–26.	cd Do.
759	Bolinao	Manila, Weather Bureau Monthly Bull., 1923, and MS. data.	**P, T,** 15 yrs., 1902–20. **R,** 25 yrs., 1886–97; 1902–17.	c **P**=⅛ (6+14). **T** derived from these hours.
761	Vigan	Manila, Weather Bureau Monthly Bull., 1923.	**P, T,** 15 yrs., 1902–18. **R,** 25 yrs., 1887–96; 1902–19.	c **P, T**=⅛ (2+6+10+14+18+22).
761*a*	Manila	Do. do.	**P, T, R,** 1887–1922.	**P, T**=mean of 24 hrs.
762	Ormoc	See No. 759.	**P, T,** 1902–05; '07–17. **R,** 1902–26.	c **P**=⅛ (6+14). **T** derived from these hours.
765	Guam, Ladrone Is.	Do.	**P,** 1907–21. **T, R,** 1906–20.	c Do. do.

Table showing the Authorities for the Meteorology of the Globe between Latitude 10° N. and 0°.

ZONE 8.

905	Fanning Island	MS. data at M.O.	**T,** 15 yrs., 1904–19. **R,** 15 yrs., 1903–18.	de **P**=9 h.
921	Colon	Balboa Heights, Panama Canal Section of Meteor. and Hydrogr., Monthly Meteor. Rep., 1923.	**P,** 1908–25. **T,** 25 yrs., 1881–88; 1907–25. **R,** 1863–74; '81–87; '89–1923.	d **P,** reduced to mean of 24 hrs.
922	Bogota	Bogota, Anales del Obs. Nat. de San Bartolome, 1923.	**R,** 1866–85; '94–1923.	**P**=⅛ (6 + 8 + 10 + 12 + 14 + 16 + 18 + 20). **T** = 1/16 (6 + 8 + 10 + 12 + 14 + 16 + 18 + 20 + 2 × *m*).
922*a*	Merida, Venez.	Caracas, Red Meteor. de Venezuela, Res. de las Obs., 1923.	**P, T, R,** 1915–24.	q **P**=½ (10 + 16). Pressure appears too high by about 6 mb. **T** derived from ½ (M + *m*).
923	Ciudad, Bolivar	Do. do.	**R,** 1917–26.	de **P**=⅛ (6 + 12 + 21).
924	El Peru, Guayanavieja	MS. data at M.O.	**P,** 15 yrs., 1910–26. **T,** 15 yrs., 1910–28. **R,** 15 yrs., 1910–25.	de **P**=7½ h., approx.
925	Georgetown, Brit. Guiana	British Guiana Blue Book, 1923.	**P, T,** 1887–1924. **R,** 1894–1923.	**P**=⅛ (7 + 13 + 18). **T** derived from these hours. Min. temp. refers to period 18h. to 7h.
926	Paramaribo	Paramaribo, Meteor. Waarnemingen, 1923, and MS. data.	**P,** 1876–1915. **T,** 1899–1923. **R,** 1847–54; '64–1925.	ae **P**=⅛ (8 + 14 + 18). **T** derived from these hours. A correction of + 2·3 mb. has been applied to the pressures, but a recent determination shows that this is 1·2 mb. too high.
926*a*	Cayenne	MS. data supplied by l'Office National Météor, Paris.	**T,** 23 yrs., 1898–1922. **R,** 1859–99; 1903–12.	**T** derived from ½ (M+*m*). Max. temp. refers to period 9h. to 16h. and min. to 16h. to 9h.
931	10°–5° N. 30°–25° W.	MS. data supplied by Meteorologische Instituut, De Bilt, Deutsche Seewarte and Meteorological Office, London.	**P, T,** Sea Temperature (Jan., Feb., Dec.), 1870–1914; '22–26, (Mar. to May) 1856–1919; '22–26, (June to Nov.) 1870–1926.	**P, T,** Sea Temp.=½ (8 + 20).
933	Konakri	Dakar, Journal Offic. de l'Afrique occid. française, 1923.	**T,** 10 yrs., 1905–16. **R,** 15 yrs., 1904–22.	d Pressure appears unreliable.
934	Freetown, Sierra Leone	MS. data at M.O.	**P,** 1877–1920. **T,** 1874–88; '91–1920. **R,** 1874–1920.	e **P**=½ (9 + 17). **T** = ¼ (17 + M + 2 *m*).
935	Assuantsi	Do.	**R,** 19 yrs.	d .. ..
936	Accra	Do.	**T,** 29 yrs., 1888–1908; '11–20. **R,** 41 yrs.	de **P**=9h.
937	Lagos	Do.	**P, R,** 35 yrs., 1891–1920. **T,** 35 yrs., 1891–1927.	e **P**=½ (9 + 15). **T** = ½ (9 + 2 × 15 + 2 × *m*).
938	Zungeru	Do.	**T,** 1905–19. **R,** 1903–19.	**T** derived from ½ (M + *m*).
939	Yola	Do.	**T,** 1915–24. **R,** 1904–28.	**T**=9h.
941	Wau	Do.	**T,** 1902–20. **R,** 1904–20.	g **T**=¼ (8 + 14 + 20 + *m*).
943	Malakal (Kodok)	MS. data supplied by Phys. Dept., Cairo.	**P, R,** 15 yrs.. **T** (Jan., Feb., April, July to Nov.), 10 yrs. **T** (Mar., Dec.), 1915–24.	g **P**=¼ (8 + 14 + 20). **T** = ¼ (8 + 14 + 20 + *m*).
1304	Mongalla	Do. do.	**P, T, R,** 1903–20.	gq Do. do.
944	Entebbe	Do. do.	**P,** 1904–20. **T,** 25 yrs., 1901–26. **R,** 25 yrs., 1896–1921.	eq **P**=¼ (7 + 14 + 21). **T** derived from ¼ (7 + 14 + 2 × 21).
951	Minicoy	MS. data at M.O.	**P, R,** see current data.	eq **P**=8h.
951*a*	Cochin	Calcutta, India Weather Review, 1923.	**P, R,** see current data. **T,** 1875–1920.	aq **P**=8h. **T** derived from ½ (M + *m*).
952	Colombo Observatory	Calcutta, India Weather Review, 1923, and MS. data.	**P, T, R,** 1869–1920.	**P**=½ (9½ + 15½). **T** derived from ½ (M + *m*).
953	Nuwara Elija	Ceylon, Govt. Gazette, Suppl., 1923, and Blue Book, 1923.	**T,** 1869–77; '80–1920. **R,** 1869–1920.	**T** derived from ½ (M + *m*).
954	Trincomalee	Do. do.	**P, T, R,** 1869–1920.	**P**=½ (9½ + 15½). **T** derived from ½ (M + *m*).
955	Kuta Raja	Do. do.		**P** reduced to mean of 24 hrs.
956	Medan	Batavia, Regenw. in Nederlandsch-Indië, 1923, and MS. data.	**P,** 1910–19. **R,** 1879–1923.	**P** reduced to mean of 24 hrs. **T**=mean of bi-hourly observations.
957	Penang	Do. do.	**P,** 1908; '10–23. **T,** 10 yrs., 1913–23. **R,** 1879–1923.	de **P**=⅛ (9 + 15 + 21).
958	Straits Settlements, Meteor. Obs., 1923.		**P,** 1882–1916. **T,** 1882–1920. **R,** 1883–1917.	cde Do. do.
959	Singapore	Do. do.	**P, T,** 1898–1922. **R,** 1869–1920.	d .. ..
960	Sandakan	MS. data at M.O.	**T, R,** 1879–95; 1904–20.	**P**=⅛ (6 + 14). **T** derived from these hours.
961	Iwahig	Manila, Weather Bureau, Monthly Bull., 1923, and MS. data.	**P,** 1914–23. **T, R,** 10 yrs., 1914–24.	**P, T**=⅛ (2+6+10+14+18+22).
961*a*	Tagbilaran	Manila, Weather Bureau, Monthly Bull., 1923.	**P,** 15 yrs., 1902–18. **T,** **R,** 15 yrs., 1903–18.	**P** reduced to mean of 24 hrs. **T**=mean of bi-hourly observations.
962	Menado	See No. 855.	**P,** 1905; '07; '09–21; **T,** 10 yrs., 1912–22. **R,** 1879–1923.	**P, T**=⅛ (2+6+10+14+18+22).
963	Surigao	See No. 861.	**P,** 15 yrs., 1902–18. **T,** 15 yrs., 1902–05; '07–19. **R,** 25 yrs., 1902–27.	Do. do.
	Kolonie, Yap	Do.	**P,** 1907–08; '10–22. **T,** 15 yrs., 1906–08; '10–22. **R,** 15 yrs., 1905–20.	

For notes *see* page 115.

ZONE 9. Table showing the Authorities for the Meteorology of the Globe between Latitude 0° and 10° S.

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
905	Malden Island	MS. data at M.O.	**P, T,** 24 yrs., 1890–1918. **R,** 28 yrs., 1890–1919.	e	**P**=½ (9 + 20). **T** derived from ½ (M+*m*).
924	Manaos	MS. data supplied by Directoria de Meteorologia, Rio de Janeiro.	**R,** 25 yrs., 1902–28.		
926	Taperinha	Do. do.	**P, T, R,** 1914–23.		**P**=⅓ (7 + 14 + 21). **T**=¼ (7 + 14 + 2 × 21).
927	Turyassu	Do. do.	**P, R,** 15 yrs., 1912–27. **T,** 1912–21.	q	Do. do.
928	Barra do Corda	Do. do.	**P, R,** 15 yrs., 1912–28. **T,** 1912–21.	q	Do. do.
929	Quixeramobim	Do. do.	**P,** 1897–1924. **T, R,** 1896–1920.	q	**P**=⅓ (7 + 14 + 21). **T** derived from ¼ (7 + 14 + 2 × 21).
930	Fernando Noronha	Do. do.	**P,** 1911–20; '22–26. **T,** 15 yrs., 1911–26. **R,** 15 yrs., 1911–27.	q	Do. do.
934	Ascension Island	MS. data at M.O.	**P,** 10 yrs., 1854–65; 1923–28. **T,** 11 yrs., 1854–65; 1917–28. **R,** 25 yrs., 1854–65; '99–1928.	e	**P** (Mar.)=½ (9 + 22). **P** (Apr.-Dec.)=½ (9 + 21). **T** derived from these hours.
939	Loanda	Loanda, Resumo das Observações Meteor. . . . de Angola, Boletim Oficial, 1923.	**P,** 1879–97; 1900–09; '13–20. **T, R,** 1879–97; 1900–20.		**P, T**=mean of 24 hrs.
940	Brazzaville	MS. data supplied by l'Office National Météor, Paris.	**P, T,** 15 yrs., 1898; 1906–21. **R,** 15 yrs., 1898; 1906–10; '12–21.	cde	**P**=½ (9 + 16).
943	Masaka	MS. data at M.O.	**T,** 15 yrs., 1903–10; '13–23. **R,** 1902–20.		**T**=¼ (7 + 14 + 2 × 21).
944	Nairobi (Dept. Agric.)	Nairobi, Dept. Agric., Meteor. Records, 1922–23, and MS. data.	**R,** 1914; '17–25.	b	..
944*a*	Zanzibar	Calcutta, India Weather Review, 1923, and MS. data.	**P, R,** see current data. **T,** 1891–1920.	aq	**P**=8h. **T** derived from ½ (M + *m*).
945	Lamu	See No. 944.	**T,** 1911–20. **R,** 25 yrs., 1894–99; 1906–25.	d	..
947	Seychelles, Port Office	See No. 944*a*.	**P, T,** see current data. **R,** 1891–1920.	q	**P**=½ (10 + 16) reduced to mean of 24 hrs. **T** derived from ½ (M + *m*).
957	Padang	Batavia, Regenw. in Nederlandsch-Indië, 1923 and MS. data.	**P,** 1908–22. **R,** 1879–1923.		**P** reduced to mean of 24 hrs.
958	Batavia	Batavia, Obs. R. Magn. and Meteor. Obs., 1923, and Regenw. in Nederlandsch-Indië, 1923.	**P, T,** 1866–1923. **R,** 1864–1923.	e	**P, T**=mean of 24 hrs.
958*a*	Pontianak	See No. 957.	**P,** 1906–20. **R,** 1879–1923.		**P** reduced to mean of 24 hrs.
959	Pasuruan	Batavia, Regenw. in Nederlandsch-Indië, 1923.	**R,** 1879–1923.		..
960	Kajoemas	Do. do.	**R,** 1887–1923.		..
962	Amboina	See No. 957.	**P,** 1906–20. **R,** 1879–1923.		**P** reduced to mean of 24 hrs.
963	Manokwari	See No. 959.	**R,** 25 yrs., 1900–26.		..
965	Daru	Port Moresby, Papua Govt. Gazette, 1923–24.	**P,** 18 yrs., 1894–95; 1903–22. **T,** 1897–1915. **R,** 25 yrs, 1894–1922.	d	**P**=9h.
966	Port Moresby	Do. do.	**P,** 24 yrs., 1891–95; 1902–22. **T,** 25 yrs., 1891–95; 1902–23. **R,** 35 yrs., 1891–1927.	d	Do.
967	Rabaul	MS. data supplied by Meteor. Bureau, Melbourne.	**T,** 1916–27. **R,** 1912; '14–27.	d	**P**=½ (9 + 15).
969	Tulagi, Brit. Solomon Is.	MS. data at M.O.	**P, T,** 1907–21. **R,** 1898–1922.	e	**P**=9h. **T** derived from ½ (M + *m*).
970	Ocean Island	Do.	**P, T,** 15 yrs., 1905–20. **R,** 1905–19.	e	**P**=½ (8 + 20). **T** derived from ½ (M+*m*).

ZONE 10. Between Latitude 10° S. and 20° S.

1002	Apia, Samoa	MS. data supplied by Director, Apia Observatory.	**P, T, R,** 1890–1924.		**P, T**=mean of 24 hrs.
1003	Alofi, Niue Island	MS. data supplied by Meteor. Office, Wellington, N.Z.	**T,** 15 yrs., 1907–22. **R,** 15 yrs., 1905–21.	a	**T** derived from ½ (M + *m*). Hb. redetermined as 27·4m.
1021	Arequipa	MS. data supplied by Professor Pickering, Harvard College.	**P,** 1892–95; 1910–20. **T, R,** 35 yrs., 1888–90; '92–1924.	q	**P**=½ (8 + 20). **T** derived from these hours.
1022	Tacna	Santiago, Publ. Inst. Meteor. de Chile, No. 35, Anuario, 1923.	..		**T** derived from ¼ (7 + 14 + 2 × 21).
1023					
1024	Sucre, Bolivia	Sucre, Boletin Mensual del Obs. Meteor., 1923.	**R,** 1883–1904; '10–19.		**P**=⅓ (7 + 14 + 21). **T**=¼ (7 + 14 + 2 × 21).
1025	Corumba	MS. data supplied by Directoria de Meteorologia, Rio de Janeiro.	**P, R,** 15 yrs., 1912–27. **T,** 10 yrs., 1913–27.	q	Do. do.
1026	Cuyaba	Do. do.	**P, R,** 1901–25. **T,** 1901–25.	q	Do. do.
1027	Bello Horizonte	..	..		..
1028	Caetite	See No. 1025.	**P, R,** 15 yrs., 1909–26. **T,** 1912–21.	q	**P**=⅓ (7 + 14 + 21). **T**=¼ (7 + 14 + 2 × 21).
1029	Ondina (Bahia)	Do.	**P,** 15 yrs., 1909–26. **T,** 1911–20. **R,** 35 yrs., 1880–1907; '09–29.	q	Do. do.
1030	Aracaju	Do.	**P, R,** 15 yrs., 1911–20; '23–29. **T,** 1911–20.	q	Do. do.
1035	St. Helena	MS. data at M.O.	**P, R,** 1892–1920. **T,** 1892–1922.	e	**P**=9h. **T** derived from ⅓ (9 + M + *m*). Hb. redetermined as 604m. **T**=¼ (9 + 21 + M + *m*).
1039	Mossamedes	Loanda, Resumo das Observações Meteor. . . . de Angola, Boletim Oficial, 1923, and MS. data.	..		
1041	Livingstone	Northern Rhodesia, Meteor. Rep., 1906–24, and MS. data at M.O.	..	ce	**P**=½ (8 + 18).
1041*a*	Elizabethville	Congo Belge, Service de l'Agriculture, Eléments climatologiques.	**P,** 10 yrs., 1912–16; '21–26. **T,** 1912–21. **R,** 1912–26.	e	**P**=8h.
1042	Gwelo	MS. data at M.O.	**P, T, R,** 1907–21.	ceq	**P**=8h.
1043	Salisbury Gaol, Rhodesia	Do.	**P, T,** 1897–1923. **R,** 1896–1923.	eq	**P**=mean of 24 hrs. **T** derived from ½ (M + *m*). Pressure values refer to Agric. Dept., Hb. 1468m.
1044	Zomba	Nyasaland Govt. Gazette, 1923.	**P,** 1908–26. **T, R,** 1892–1926.	e	**P**=½ (9 + 21). **T** derived from these hours.
1045	Antananarivo	MS. data supplied by l'Office National Météor, Paris.	**P, T,** 1889–1923. **R,** 1890–1924.	eq	**P, T** = mean of 24 hrs. Height of station has been redetermined as 1375m. instead of 1400m. There has been no change of site.

For notes *see* page 115.

ZONE 10—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
1046	Tamatave	Bulletin Économique de Madagascar, 1923.	..	d	..
1047	Vohémar	Do. do.	..	d	..
1048	Antalaha	Do. do.	..	ce	**P**=½ (7+12+18).
1055	Cocos, Keeling Is.	MS. data supplied by Meteor. Bureau, Melbourne.	**P, T,** 1905–20. **R,** 1904–20.	d	**P**=9h.
1057	Christmas Island	MS. data.	**P, T, R,** 1902–26.	e	**P**=½ (9 + 21). **T**=¼ (9 + 21 + M + *m*).
1061*a*	Kupang	Batavia, Regenw. in Nederlandsch-Indië, 1923, and MS. data.	**P,** 1910–19. **T,** 10 yrs., 1912–22. **R,** 1879–1923.	,	**P** reduced to mean of 24 hrs. **T**, mean of bi-hourly observations.
1062	Derby	See No. 1055.	**P, T,** 1897–1921. **R,** 1886–1920.		**P**=½ (9 + 15).
1063	Hall's Creek	Do.	**P,** 1901–19. **T,** 1899–1923. **R,** 1891–1919.		**P**=½ (9 + 15). **T** derived from ½ (M + *m*).
1064	Darwin	Do.	**P, T,** 1882–1924. **R,** 1870–1924.		Do. do.
	Daly Waters	Do.	**P,** 1881–1919. **T,** 1886–1920. **R,** 1873–1919.		Do. do.
1065	Mein	Do.	**P,** 1906–20. **T,** 1907–21. **R,** 1888–1922.		**P**=½ (9+15).
1066	Georgetown, Queensland	Do.	**P,** 1910–19. **T,** 1907–21. **R,** 1872–1919.		Do.
1066*a*	Willis Island	Do.	..	d	Do.
1067	Samarai	Port Moresby, Papua Govt. Gazette, 1923–24.	**P,** 15 yrs., 1904–24. **T** (Jan. to Mar., Yr.), 17 yrs., 1904–24. **T** (Apr. to Dec.), 1904–23. **R,** 15 yrs., 1891–92; 1904–20.		**P, T** (Jan. to Mar., Yr.)=9h. **T** (Apr. to Dec.) derived from ½ (M+*m*).
1072	Suva, Fiji	MS. data at M.O.	**P, T, R,** 1886–1920.	ce	**P** (Jan. to Sept.)=9h. **P** (Oct. to Dec.)=8½h. **T** derived from ½ (M+*m*).

ZONE 11. Table showing the Authorities for the Meteorology of the Globe between Latitude 20° S. and 30° S.

1075	Rarotonga (Avarua)	MS. data supplied by Meteor. Office, Wellington, N.Z.	**T,** 1899–1914. **R,** 1899–1915.	a	**T** derived from ½ (M+*m*).
1121	Punta Tortuga, Coquimbo	Santiago, Publ. Inst. Meteor. de Chile, No. 35, Anuario, 1923.	**P,** 25 yrs., 1870–1920. **T,** 1899–1908; '10–24. **R,** 1900–24.	e	**P**=⅓ (7+14+21). **T** derived from ¼ (7+14+2 ×21).
1122	Iquique	Do. do.	**P,** 17 yrs., 1886; '99–1917. **T,** 1900–24. **R,** 1886; '99–1908; '11–24.	e	Do. do.
1123	Catamarca	Buenos Ayres, Oficina Meteor. Nacion., Bol. Mens., 1923, and Washington, Smith's Inst. Misc. Coll., 79. 1927.	**P,** 1901–24. **T,** 1904–24. **R,** 1902–24.	e	**P, T**=mean of 24 hrs.
1124	Salta	Buenos Ayres, Oficina Meteor. Nacion., Bol. Mens., 1923.	**P, T, R,** 1901–24.	q	Do.
1125	Goya	Do. do.	**P, T, R,** 1877–1924.	e	Do.
1126	Asuncion	MS. data supplied by Director, Oficina Meteor., Argentina.	**P,** 28 yrs., 1893–1924. **T,** 1892–1911; '17–21. **R,** 28 yrs., 1893–1911; '13–23.		Do.
1127	Curityba	MS. data supplied by Directoria de Meteorologia, Rio de Janeiro.	**P,** 38 yrs., 1885–1924. **T,** 1885–1916; '20–22. **R,** 1885–1917; '20–25.		Do.
1128	Rio de Janeiro	Do. do.	**P,** 1851–1925. **T,** 1871–1925.	q	**P**=⅓ (7+14+21). **T**=¼ (7+14+2 ×21).
1129	Windhoek	MS. data supplied by Meteorological Assistant, Windhoek.	**T,** 15 yrs., 1901–05; '11–23. **R,** 35 yrs.	e	**P**=⅓ (7+14+21). **T**=mean of 24 hrs. Rainfall values corrected for change of site.
1160	Kimberley	MS. data supplied by Dr. J. R. Sutton.	**P,** 1895–1923. **T,** 1897–1923. **R,** 1894–1923.	ceq	**P**=½ (8+14+20). **T**=mean of 24 hrs.
1161*a*	Johannesburg	Pretoria, Monthly Weather Rep. of Meteor. Office, 1923, and London, Meteor. Mag., 1923–24.	**P, T,** 1904–24. **R,** 1888–1924.	q	**P** reduced to mean of 24 hrs. **T** derived from ½ (M +*m*).
1162	Bulawayo	MS. data at M.O.	**P, T,** 1897–1923. **R,** 1896–1924.	ceq	**P**=8h. **T** derived from ½ (M+*m*).
1163	Durban	Pretoria, Monthly Weather Rep. of Meteor. Office, 1923, and MS. data.	**P,** 1884–1920. **T,** 1885–1920. **R,** 1873–1920.	ce	**P**=8½h. **T** derived from ½ (M+*m*).
1164	Lourenço Marques	Lourenço Marques, Relatório do Observatório Campos Rodrigues, 1923.	**P, T, R,** 15 yrs.		**P, T**=mean of 24 hrs.
1165	Tuléar	Bulletin Économique de Madagascar, 1923.	..		..
1166	Fort Dauphin	Do. do.	..	d	**P**=½ (7+12+18).
1167	Mauritius	Mauritius, Results of Meteor. Obs., 1923, at Royal Alfred Observatory.	**P, T, R,** 1861–1919.	e	**P, T**=mean of 24 hrs.
1169	Onslow	MS. data supplied by Meteor. Bureau, Melbourne.	**P, T,** 1897–1921. **R,** 1886–1920.		**P**=½ (9+15).
1170	Cue	Do. do.	**P, T,** 1897–1926. **R,** 1895–1926.		Do.
1171	Nullagine	Do. do.	**P,** 1900–19. **T,** 1899–1923. **R,** 1898–1922.		Do.
1172	Laverton	Do. do.	**P, T,** 1901–19. **R,** 1900–19.		**P**=½ (9+15). **T** derived from ½ (M+*m*).
1173	Alice Springs	Do. do.	**P,** 1885–1923. **T,** 1879–1924. **R,** 1873–1924.		Do. do.
1176	William Creek	Do. do.	**P, T,** 1889–1923. **R,** 1874–1919.		Do. do.
1177	Boulia	Do. do.	**P,** 1900–19. **T,** 1898–1922. **R,** 1887–1921.		Do. do.
1178	Thargomindah	Do. do.	**P, T,** 1910–24. **R,** 1879–1924.		Do. do.
1179	Mitchell	Do. do.	**T,** 1907–21. **R,** 1884–1919.		**P**=½ (9+15).
1180	Rockhampton	Do. do.	**P,** 1889–1923. **T,** 1898–1922. **R,** 1887–1921.		Do.
1181	Brisbane	Do. do.	**P, T,** 14 yrs. **R,** 76 yrs.		**P**=½ (9+15). **T**=¼ (9+15+21+*m*).
1182	Norfolk Island	Do. do.	**P,** 1908–11; '15–22. **T,** 1879; '81–84; 1915–22. **R,** 1887–1912; '15–23.	d	**P**=9h.

Between Latitude 30° S. and 40° S. ZONE 12.

1221	Juan Fernandez	Santiago, Publ. Inst. Meteor. de Chile, No. 35, Anuario, 1923.	..		**T** derived from ¼ (7+14+2 ×21).
1221*a*	Punta Tumbes	Do. do.	**P, T, R,** 1901–17.	e	**P**=⅓ (7+14+21). **T** derived from ¼ (7+14+2 ×21).
1222	Punta Angeles, Valparaiso	Do. do.	**P,** 1869–72; '83–86; '99–1918. **T,** 1899–1908; '11–18. **R,** 1869–74; '99–1918.	e	Do. do.
1222*a*	Santiago	Do. do.	**P,** 1861–1921. **T,** 1860–1921. **R,** 1867–1921.	e	Do. do.

For notes *see* page 115.

ZONE 12—*continued.*

No.	Name of Station.	Authority for Current Data.	Period of Normals.		Remarks.
1223	Cordoba	Cordoba, Oficina Meteor. Nacion., Sinopsis del Tiempo, 1923.	**P**, $\mathfrak{T}$, **R**, 1873–1924.	e	**P**, $\mathfrak{T}$=mean of 24 hrs.
1224	Bahia Blanca	Buenos Ayres, Oficina Meteor. Nacion., Bol. Mens., 1923.	**P**, $\mathfrak{T}$, 1860–83; '96–1924. **R**, 1860–83; '85–1924.		Do.
1225	Buenos Ayres (Chacarita)	Do. do.	**P**, 1858–1924. $\mathfrak{T}$, 1856–1924. **R**, 1861–1924.		Do.
1226	Montevideo (Obs. Central)	Montevideo, Instituto Meteor. Nacional, Datos, 1923.	**P**, $\mathfrak{T}$, **R**, 1906–15; '18–22.		**P**=$\frac{1}{3}$ (7 +14 +21). $\mathfrak{T}$=$\frac{1}{5}$ (7 +14 +21 + M +m).
1226*a*	Porto Alegre	Porto Alegre, Inst. Astr. e Meteor., Bol. Ann., 1923.	**P**, **R**, 1910–13; '15–19; '22–27. $\mathfrak{T}$, 10 yrs., 1910–22.	e	**P**, $\mathfrak{T}$=mean of 24 hrs.
1239	Cape Town	Pretoria, Monthly Weather Rep. of Meteor. Office, 1923, and London, Meteor. Mag., 1923–24.	**P**, 1841–1924. **T**, 1857–1924. **R**, 1841–1928.		**P**, reduced to mean of 24 hrs. $\mathfrak{T}$ derived from $\frac{1}{2}$ (M +m).
1240	Danger Point	MS. data supplied by Chief Meteorologist, Pretoria.	**T**, 10 yrs., 1910; '12; '14–22. **R**, 25 yrs.	ce	**P**=8$\frac{1}{4}$ h.
1241	Riversdale	Do. do.	**R**, 49 yrs.	ce	**P**=8$\frac{1}{2}$h. Height deduced from mean pressure.
1242	East London	Pretoria, Monthly Weather Report, 1923, and MS. data.	**P**, 1870–1904. **T**, 1881–1906; '10–19. **R**, 35 yrs., 1877–1914.	c	**P**=8$\frac{1}{2}$h.
1259	Perth (Observatory)	MS. data supplied by Meteor. Bureau, Melbourne.	**P**, 43 yrs. **T**, 31 yrs. **R**, 52 yrs.		**P**=$\frac{1}{2}$ (9 +15). $\mathfrak{T}$ derived from $\frac{1}{2}$ (M +m).
1260	Katanning	Do. do.	**P**, **T**, 1897–1921. **R**, 1892–1919.		**P**=$\frac{1}{2}$ (9 +15).
1261	Coolgardie	Do. do.	**P**, **T**, 1897–1921. **R**, 1893–1919.		**P**=$\frac{1}{2}$ (9 +15). $\mathfrak{T}$ derived from $\frac{1}{2}$ (M +m).
1262	Eucla	Do. do.	**P**, 1879–1918. **T**, 1878–1919. **R**, 1876–1919.		Do. do.
1263	Streaky Bay	Do. do.	**P**, 1890–1919. **T**, 1891–1919. **R**, 1878–1919.		Do. do.
1264	Adelaide	Do. do.	**P**, **T**, 71 yrs. **R**, 89 yrs.		Do. do.
1265	Melbourne	Do. do.	**P**, 70 yrs. **T**, **R**, 72 yrs.		Do. do.
1266	Bourke	Do. do.	**P**, 1907–24. **T**, 1874–1918. **R**, 1873–1919.		**P**=9h.
1267	Sydney	Do. do.	**P**, **T**, **R**, 69 yrs.		**P**=$\frac{1}{3}$ (9 +15). $\mathfrak{T}$=$\frac{1}{4}$ (9 +15 +21 +m).
1268	Lord Howe Island	Do. do.	**P**, 1914–23. **T**, 1913–21; '23. **R**, 1897–1912; '15–23.		**P**=9h.
1271	Auckland	Wellington, Statistics of New Zealand, Meteor., 1923.	**P**, 1916–25. **T**, 1864–1923. **R**, 1853–1923.	a	Do.
1272	Napier				

ZONE 13. Table showing the Authorities for the Meteorology of the Globe between Latitude 40° S. and 50° S.

1301	Chatham Island	MS. data supplied by Meteor. Office, Wellington, N.Z.	**P**, 25 yrs., 1879–81; '94–1919.		**P**=9h.
1321	Isla Guafo	Santiago, Publ. Inst. Meteor. de Chile, No. 35, Anuario, 1923.	**P**, **R**, 1908–22. $\mathfrak{T}$, 1911–20.	e	**P**=$\frac{1}{3}$ (7 +14 +21). $\mathfrak{T}$ derived from $\frac{1}{4}$ (7 +14 +2 ×21).
1322	Punta Galera	Do. do.	**P**, **T**, **R**, 1899–1923.	e	Do. do.
1323	Sarmiento	Buenos Ayres, Oficina Meteor. Nacion., Bol. Mens., 1923.	**P**, $\mathfrak{T}$, **R**, 21 yrs., 1903–24.		**P**, $\mathfrak{T}$=mean of 24 hrs.
1324	Puerto Madryn	Do. do.	**P**, 16 yrs., 1902; '05–24. $\mathfrak{T}$, 1901–24. **R**, 21 yrs., 1902–24.		Do.
1365	Launceston	MS. data supplied by Meteor. Bureau, Melbourne.	**P**, 1905–19. **T**, 1891–1918. **R**, 1886–1920.		**P**=$\frac{1}{2}$ (9 +15). $\mathfrak{T}$ derived from $\frac{1}{2}$ (M +m).
1366	Hobart	Do. do.	**P**, 43 yrs. **T**, 57 yrs. **R**, 85 yrs.		Do. do.
1370	Invercargill	Wellington, Statistics of New Zealand, Meteor., 1923.	**T**, 17 yrs. **R**, 33 yrs.	a	..
1371	Dunedin	Do. do.	**P**, **T**, 1864–1923. **R**, 67 yrs.	a	**P**=9h.
1371*a*	Christchurch	Do. do.	**P**, 1905–23. **T**, 1864–80; 1905–23. **R**, 1864–80; '94–1923.	a	**P**=9$\frac{1}{2}$h.
1372	Wellington	Wellington, New Zealand Govt. Gazette, 1923–24.	**P**, **T**, 1864–1923. **R**, 1862–1923.		**P**=9h.

ZONE 14. Between Latitude 50° S. and 60° S.

1421	Islota de los Evangelistas	Santiago, Publ. Inst. Meteor. de Chile, No. 35, Anuario, 1923.	**P**, **R**, 1899–1923. **T**, 1899–1908; '10–24.	e	**P**=$\frac{1}{3}$ (7 +14 +21). $\mathfrak{T}$ derived from $\frac{1}{4}$ (7 +14 +2 ×21).
1422	Puerto de Punta Arenas	Do. do.	**P**, 1889–1924. $\mathfrak{T}$, **R**, 1888–1924.	e	Do. do.
1423	Punta Dungeness	Do. do.	**P**, 1900–08; '10–18. $\mathfrak{T}$, 1900–18. **R**, 1903–18.	e	Do. do.
1424	Santa Cruz	Buenos Ayres, Oficina Meteor. Nacion., Bol. Mens., 1923.	**P**, 1903–09; '11–24. $\mathfrak{T}$, 1901–24. **R**, 24 yrs., 1896–98; 1903–24.		**P**, $\mathfrak{T}$=mean of 24 hrs.
1424*a*	Año Nuevo	MS. data supplied by Ministerio de Marina, Buenos Ayres.	**P**, $\mathfrak{T}$, 19 yrs., 1886–95; 1902–05; '14–21.	e	**P**=$\frac{1}{3}$(8+14+20). $\mathfrak{T}$ derived from three hours.
1425	Stanley, Falkland Is.	MS. data at M.O.	**R**, 1904–20.		**P**=9h.
1426	Cape Pembroke	Do.	**P**, $\mathfrak{T}$, 1895–1920.	e	**P**, $\mathfrak{T}$=$\frac{1}{8}$ (4 +8 +12 +16 +20 +24). Non-recording rain gauge.
1429	S. Georgia (Cumberland Bay)	Do.	**P**, $\mathfrak{T}$, 1905–26. **R**, 1906–26.	e	**P**=$\frac{1}{3}$ (8 +14 +20). $\mathfrak{T}$ derived from three hours.

ZONE 15. Between Latitude 60° S. and 70° S.

1527	South Orkneys	MS. data supplied by Oficina Meteor. Nacion., Buenos Ayres.	**P**, $\mathfrak{T}$, 1903–23. **R**, 17 yrs., 1904–23.	e	**P**, $\mathfrak{T}$=mean of 24 hrs.

For notes *see* page 115.

NOTES.

a. Maximum thermometer read at hour of morning observation and entered to day of reading.
b. Maximum and minimum temperatures from whole degrees Fahrenheit.
c. International Zone Time.
d. $\mathfrak{T}$ derived from table below.
e. M.S.L. reduction applied in M.O.
f. At Cairo, mean temperatures obtained by this formula are 0.7*a* too low.
g. At Khartoum, mean temperatures obtained by this formula are 1.0*a* too low.
h. At Quixeramobim, mean temperatures obtained by this formula are 0.6*a* too low.
k. Absolute maximum taken from observations at fixed hours.
l. Absolute minimum taken from observations at fixed hours.
n. 75th W. meridian time.
q. Pressure differences from normal refer to station level values.
r. 105th W. meridian time.

Normals for which the period is enclosed in brackets have been computed by comparison with neighbouring stations.

The statement that $\mathfrak{T}$ is derived from a certain combination means that a correction has been applied to the values given by this combination to obtain the approximate true mean temperature.

Daily Observations of Wind within the Tropics.—The information is extracted from MS. data at M.O.

REDUCTION TO TRUE MEAN TEMPERATURE.

The following references give the more important authorities for the corrections which have been applied to reduce the temperatures, either means of observations at fixed hours or means of maxima and minima, to true mean.

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The following table gives approximate corrections for the limits 30° N. to 30° S. to reduce $\frac{1}{2}$ (M+m) to true mean temperature ($\mathfrak{T}$), taking into consideration the height and the daily range (M—m). It can be applied in cases where no other correction is available, and has been so used in the tables in this issue.

Daily Range	Height in Metres.							
	0	500	1000	1500	2000	2500	3000	3500
a.	*a.*	*a.*	*a.*	*a.*	*a.*	*a.*	*a.*	*a.*
4	— ·35	— ·42	— ·49	— ·56	— ·63	— ·70	— ·77	— ·84
6	— ·42	— ·50	— ·58	— ·66	— ·74	— ·82	— ·90	— ·98
8	— ·52	— ·59	— ·65	— ·72	— ·78	— ·85	— ·91	— ·98
10	— ·64	— ·67	— ·70	— ·73	— ·76	— ·79	— ·82	— ·85
12	— ·79	— ·76	— ·73	— ·70	— ·67	— ·64	— ·61	— ·58
14	— ·97	— ·85	— ·73	— ·61	— ·49	— ·37	— ·25	— ·13

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